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chondroitin suifate proteoglycan / (versican)	200		AGINCEACHTECA		GGGAACTTCGTAGATCTGGAAAGA	25	AGCCAGAACTGCAGAAGAAACAGTTGTGC	ç
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İ	200	<u> </u>	CHECCACOCOTOCA	1	TICTERCETTOCTAGTOCCTITAGG	1	CCAGGCCAGGAGCAGGTCGG	29
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Presentation organist Parties 81	TGFB1		GETECATECATECATETT	1	TCTGCAAGTTCATCCCCTCTTT	_	CAGCITOCAGCAACACATOAGG	8
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Name	ef 419 680 680 332 898 898 899 899 878 877 877 877 877 877	Ploy	change rank -17818 -22292 -22367.5 -21188.5 -17475 -17475 -18092			Wilcoxon
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Symbol S	NM 015419 NM 017680 NM 006569 NM 001322 NM 001322 NM 003878 NM 002192 NM 002192 NM 002192 NM 002192 NM 002192 NM 002192 NM 002318		12.12.12	1.0F-28 6.4E-23 2.3E-42		
CGR11 A:07749	NM 005569 NM 006385 NM 001898 NM 001898 NM 001898 NM 003878 NM 003878 NM 002192 NM 002192 NM 002192 NM 002318		-22292 -22367.5 -21188.5 -21606.5 -17475 -17475 -17475 -18092	6.4E-23 2.3E-42	3.04E-24	0.05+00
CFNZ A:071-73	NM 004385 NM 004385 NM 004385 NM 001322 NM 001322 NM 002192 NM 002193 NM 002193 NM 002193 NM 002193 NM 002193 NM 002776 NM 002776		-22367.5 -21188.5 -21606.5 -17475 -17475 -22761	2.35-42	1.95-18	0.05+00
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CSR11 A;10008 CSPG2 A;10008 CST1 A;06089 CST4 A;06089 CST4 A;06089 CST4 A;06089 IMBA A;02189 IGFB7 A;03385 IGFB A;0343 SPP1 A;06085 IGFB1 A;08092 IGFB1 B;1274 IGFB1 B;12843 IGFB1 B;1686 IGFB1 B;1686 IGFB1 B;1686 IGFB1 B;1686 IGFB1 B;1686 IGFB1 B;1686	NM 004385 NM 004385 NM 001322 NM 001898 NM 002192 NM 002192 NM 002196 NM 002386 NM 002386 NM 002386	<u> </u>	-21606.5 -17475 -17475 -17475 -22761	4.3374	1.35-37	0.0E+00
CSPG2 A:10008	NM 001898 NM 001898 NM 003878 NM 003878 NM 001553 NM 001553 NM 001553 NM 002356 NM 002356		-17475 -17475 -22761	2.23E-33	6.65E-29	0.00E+00
CST1 A:06089	NW 001322 NW 016938 NW 002192 NW 002192 NW 002192 NW 002192 NW 002193 NW 002318	 	-17475 -17475 -22761 -18092	1.3E-18	3.8E-14	0.05+00
CST2	NM 002356 NM 003878 NM 002192 NM 002192 NM 002776 NM 002318		-17475 -22761 -18092	1.3E-18	3.85-14	0.05+00
CST4 A:06089	NM 001899 NM 002192 NM 002193 NM 002193 NM 002776 NM 002776 NM 002318		-22761	1.35-18	3.85-14	0.0E+00
International control of the contr	NM 015938 NM 003878 NM 002192 NM 00276 NM 022356 NM 002338	11111	18092	2.0F-35	5.9E-31	0.0E+00
GGH A:03601	NM 003878 NM 002192 NM 001553 NM 002776 NM 022356 NM 002318	44444	76007	1 65.07	4 8F-03	5.7E-11
teoglycan 1 (feperal 1)	NM 002192 NM 001553 NM 002776 NM 002356 NM 002345	1111	770.00	1 45-30	4.3E-26	0.0E+00
7 1GFBP7 A:03385 KLK10 A:03385 KLK10 A:0907 LUM A:09199 LUM A:09199 LUM A:09199 LUM A:09199 LUM A:09199 MMP12 A:06085 TIMP1 A:06085 TIMP1 A:06085 TIMP1 A:06048 ASAH1 A:003041 CEXIN type 5 PCSK15 B:1811 SFRP2 B:1634 SFRP2 B:1834 SFRP2 B:1834 SFRP4 A:07398 SFRP4 A:08092 SFRP1 B:1274 SFRP1 B:1274 SFRP1 B:1274 SFRP4 A:08092 SFRP4 B:1840316 TTRC1 B:7686		444	2000	5 dF-31	1.6E-26	0.05+00
KUKIO A;07907	NM 002756 NM 002345 NM 002348	NP 002767 NP 071751 NP 002336	3 3000	5 OE 10	1 SF-05	4.9E-06
ILPRE1 A:04646	NM 002345 NM 002345 NM 002318	NP 071751 NP 002336	C.006/1-	3.05-10	2 45.00	1.15-12
LUM A:09199	NM 002345 NM 002318	NP_002336	-10013	77.35	1 26 10	0.054.00
LOXI.2 A:06085 MMP2 A:06085 MMP2 A:06749 MMP2 A:06749 A:06741 A:06741 A:06741 A:06741 A:06741 A:06741 A:06741 A:07749 A:07	NM 002318	000000	-24927	4.25-24	1.35-13	7 OF 10
MMP12 A:000-05 MMP12 A:00762 TIMP1 A:00768 TIMP1 A:00768 ASAH1 A:0030 ASAH1 A:0030 ASAH1 A:0030 A:00704 A:00704 A:00704 A:00704 A:00704 A:00704 A:00704 A:00704 A:00704 A:00704 A:00704 A:00708 A:00704 A:00708 A:00704 A:00708 A:00706 A:00708 A:00706 A:00708 A:00706 A:00708 A:00707 A:00	NW ODASO	NP 002309	-16994.5	5.95-10	1./5	1.36.7
MMPI		P08253	-18710	1.2E-11	3.6E-07	1.55-10
MMP12 A:011/04 A:08048 I A:08041 A:08041	ACACOO MM	ND 002417	-20209.5	2.2E-12	6.6E-08	4.96-11
TIMP1 A:10848	T	ND 002245	-24177	7.5E-38	2.3E-33	0.0E+00
ASAH1 A:10030 OLFM1 B:3555 OLFM1 B:3555 OLFM1 A:09441 Kexin type 5 PCSK5 A:00704 SFRV2 B:1634 SFRV2 B:1634 SFRV4 A:07398 Clade H SERPINB5 A:10485 Ibitor clade B SERPINB5 A:10485 ISPARC A:08092 SPARC B:2643	T	NP 004306 1 7	-19636.5	9.6E-16	2.9E-11	0.0E+00
OLPM1 B:3555	1	1	2 08726.	6.5F-46	1.9E-41	0.0E+00
SPP1	1	1	27668	4 0E-32	1.2E-27	0.05+00
kexin type 5 PCSKS A:00704 RLAZG12b B:1811 SFRP2 B:1634 SFRP2 B:1634 SFRP2 B:1634 SIGNB B:1634 SERPINH1 A:08615 Bitor clade B SERPINH5 A:08092 SPARC A:08016 SPARC A:09316 SPARC B:9017	1	2	76791	2 OF-11	6.0E-07	7.3E-11
PLAZG12b B:1811 SFRPZ B:1634 SFRPA A:07398 SFRPA A:07398 SFRPA A:08615 SERPINBS A:08615 SFRPA A:08615 SFRPA A:08615 SFRPA A:08615 SFRC A:08092 SFRC A:08092 SFRC A:08092 SFRC A:08092 SFRC A:08016 SFRC S		4	22242	7 025.30	2 365-34	0.00E+00
SFRP2 8:1634 SFRP4 SFRP4 SFRP4 SFRP4 SFRP1MB1 SFRP1MB2 SFRP1M		-	21767	275.10	8 1F.06	4.15-08
SFRD4 A:07398	634 XM 050625	4	17771.	2.75.20	1 05.10	004700
Ciade H SERPINH1 A:08615 Ditor clade B SERPINBS A:10485 PRSS11 B:1274 SPARC A:08092 SPARC A:08092 SPON2 B:2543 SINN A:09316 TTBE2 B:9017 TG B:5402	7398 NM_003014	4	55122	0.UE-24	1.001	0.00
Control Cont	B615 NM 001235	NP 001226 1.9	-20252	2.85-34	8.25-30	2000
SPARC B:1274 B:1274 B:1274 B:1274 B:1274 B:1274 B:1274 B:1274 B:1274 B:1277 B:		P36952 1.5	-17026	4.05-00	10-36-1	20.0
SPONZ 8:2642 SPONZ 8:2643 SNN 8:09316 THBS2 8:9017 TSRC1 8:7686	T	NP 002766 1.6	-17184.5	9.3E-18		0.05+00
SPARC A:00092 SPON2 B:2543 SPON2 B:2543 THBS2 B:9017 TSRC1 B:7686 TG B:5402	T	_	-22947.5	1.5E-44	١	0.05+00
SFONZ B:25-3 SNN A:09316 THBSZ B:9017 TSRC1 B:7666 TG B:5402		L	-20390.5	2.95-31	8.5E-27	0.0E+00
SNN A.0.9310	T		-20162.5	3.25E-24	9.71E-20	0.005+00
Sepondin 2 E1902/ Sepondin repeat containing 1 TGC1 B:7686 TG B:5402	MM 003347	ND 003238	-22095	5.8E-29	1.7E-24	0.0E+00
TSRC1 B:7686 TG B:5402	VA70000	ND 06100E 2 6	-22608	1.38E-45	4.16-41	0.0E+00
TG B:5402	T	2000 ON	-23644	4.39E-36	1.35-31	0.0E+00
		NF 003240	23330 5	1 965-74	9.71E-20	0.05+00
prowth factor 8-induced TGFBI A:08124		NP UCCS49	477.1	2 20E-18	6.86E-14	0.05+00
TGFB1 A:07050		10113/	1000	1 37E AA	2 26.30	00+90
link protein 4 HAPLN4 C:6300		NM 023002 NP 075378 3.4	c.01cf7-	1.325-	20.33	
		Figure 2				

Quantitative RT-PCR - Quantification of Expression of Selected Gastric Cancer Candidate Genes	ession of Se	elected Gas	tric Cancel	r Candidate (Senes
		N:T acibem	Maximum T:N fold	% T >95th	
	svmbol	fold change	change	percendie	
		2	37	74	
School (in clace 1)	ASPN	12	73	91	
chondroitin sulfate proteoglycan 2 (versican)	CSPG2	9		•	
Cyclating SN, SA & S	CST1, 2, 4	525	25532	7	
Anti-containing fibrilin-like extracellular matrix protein 2	EFEMP2	3	15		-
	HOOH	2			
inhihin hota A chain	INHBA	34	357		
insulin-like growth factor binding protein 7	IGFBP7	4	19	80	
	KLK10	S	9	2	.
lengine proline-enriched proteoglycan 1(leprecan 1)	LEPRE1	4	17		
limican	MOJ	S	47		
lysyl oxidase-like 2	LOXL2	9			
matrix metalloproteinase 12	MMP12	6	586		
metalloproteinase inhibitor 1	TIMP1	8	19		
n-acylsphingosine amidohydrolase	ASAH1	3	7	63	•
osteopontin	SPP1	40	4		
secreted frizzled-related protein 2	SFRP2	5			
secreted frizzled-related protein 4	SFRP4	56	Φ	100	
secreted protein; addic, cysteine rich	SPARC	6	56	93	
	PRSS11	4	25	72	
thrombosnondin 2	THBS2	25			
thyradiohilin	<u>TG</u>	2	153		
transforming growth factor B-induced	TGFBI	7	204	82	
1 percentage of tumors with expression levels greater than the 95th percentile of non-malignant samples	the 95th percer	ntile of non-ma	lignant sample	es.	
חבור ביונים לבי ביונים אורון ביאור ביאור ביונים אורון ביאור ביונים אורון ביאור ביונים אורון ביאור ביונים אורון					

Figure 3

WO 2005/010213

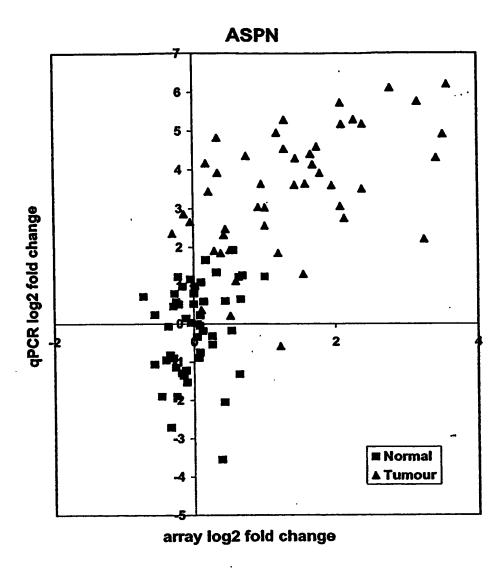


Figure 4(a)

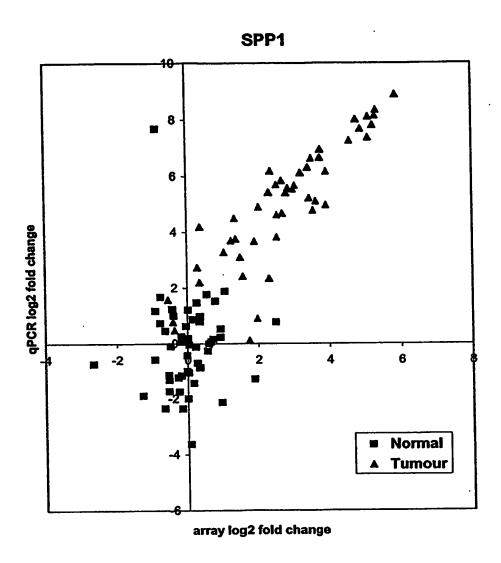


Figure 4(b)

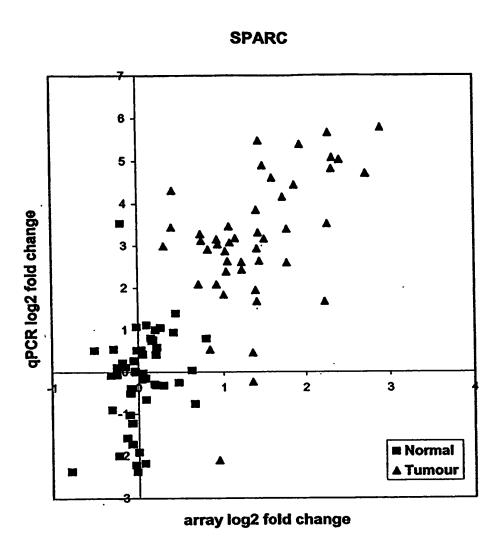


Figure 4(c)

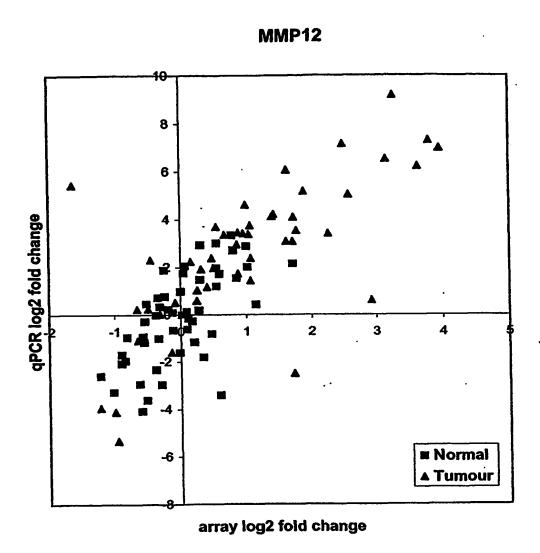
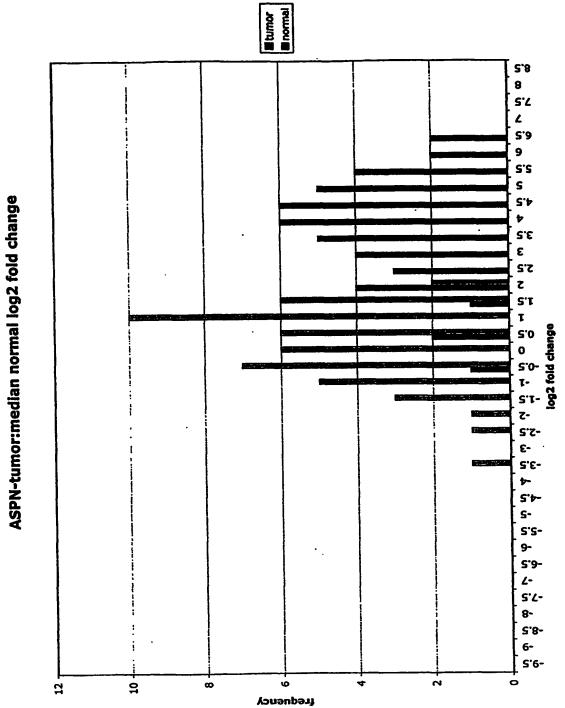


Figure 4(d)





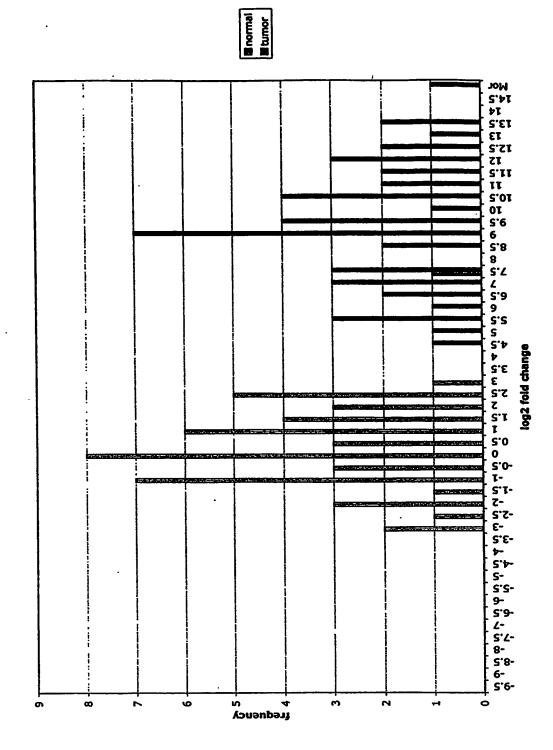


Figure 5(b)

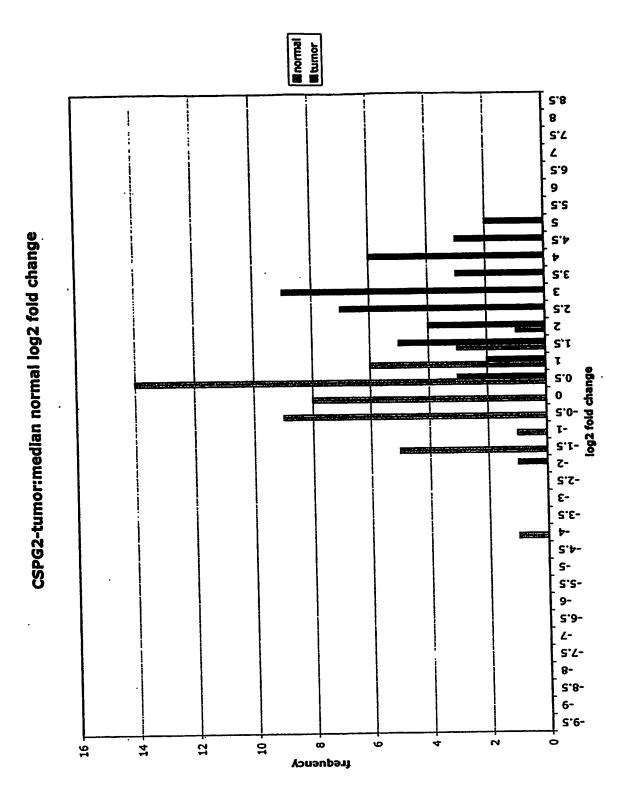


Figure 5(c)

IGFBP7-tumor:median normal log2 fold change

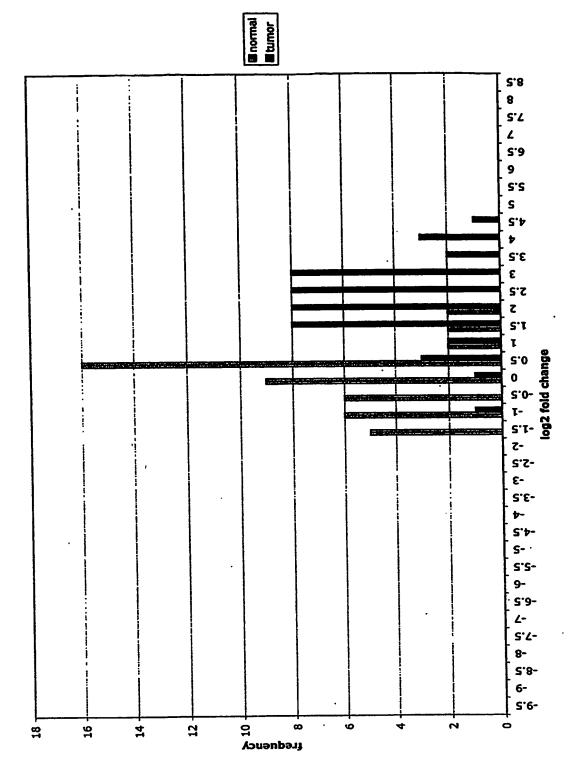


Figure 5(d)

INHBA-tumor: median normal log2 fold change

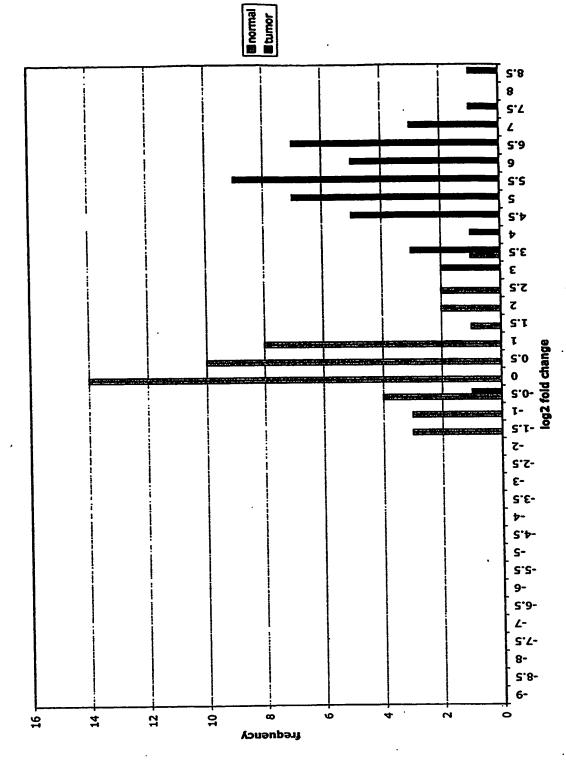


Figure 5(e)

LOXL2-tumor: median normal log2 fold changes

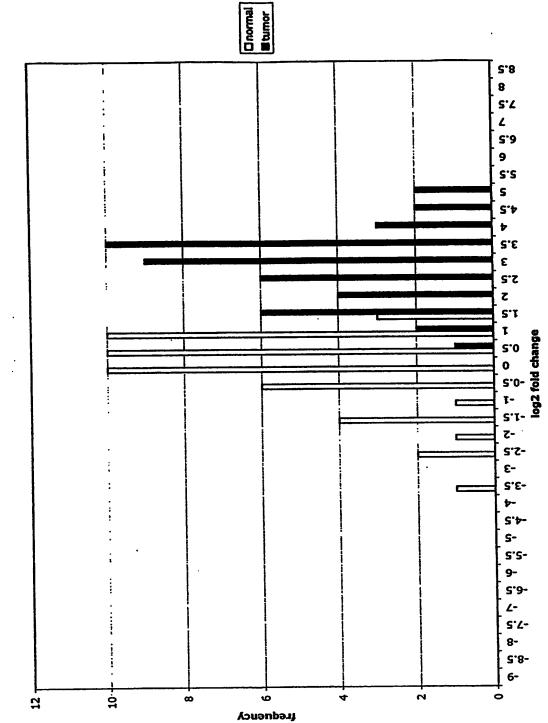


Figure 5(f)

lumican-Tumor:median normal log2 fold changes

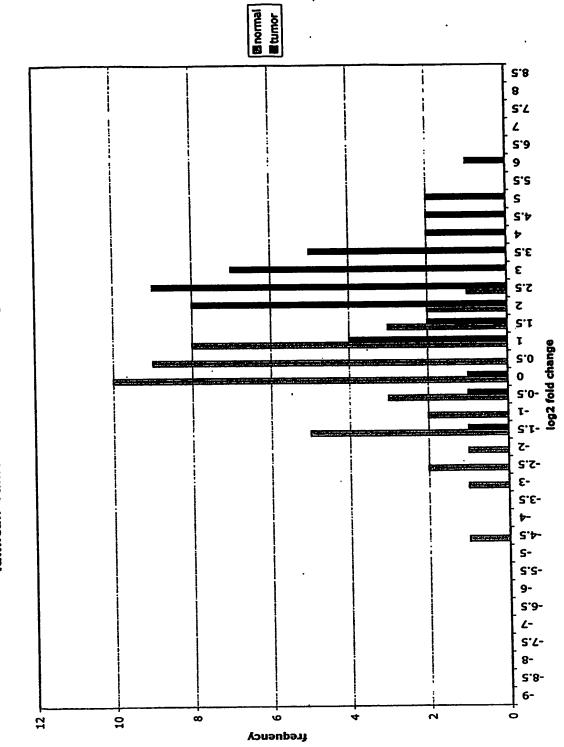


Figure 5(g)

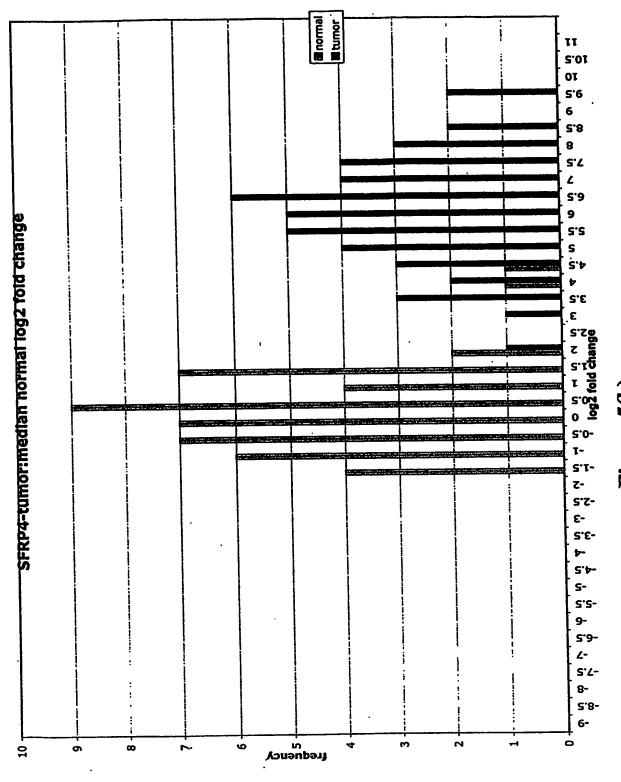


Figure 5(h)

SPARC-tumor: median normal log2 fold changes

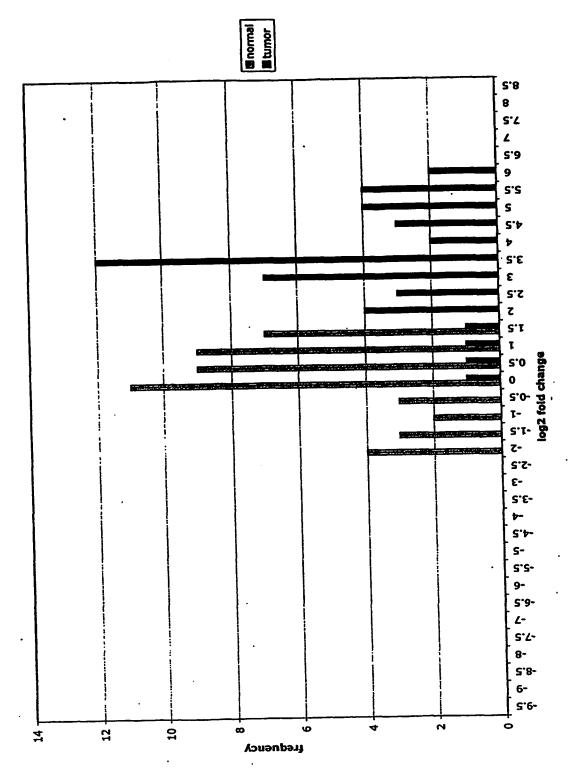
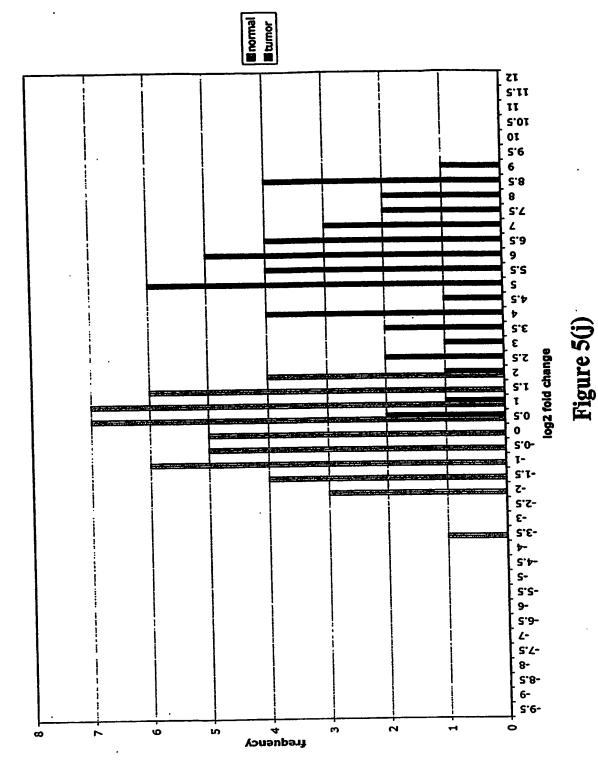


Figure 5(i)

SPP1-tumor: median normal log2 fold change



THBS2-tumor:median normal log2 fold change

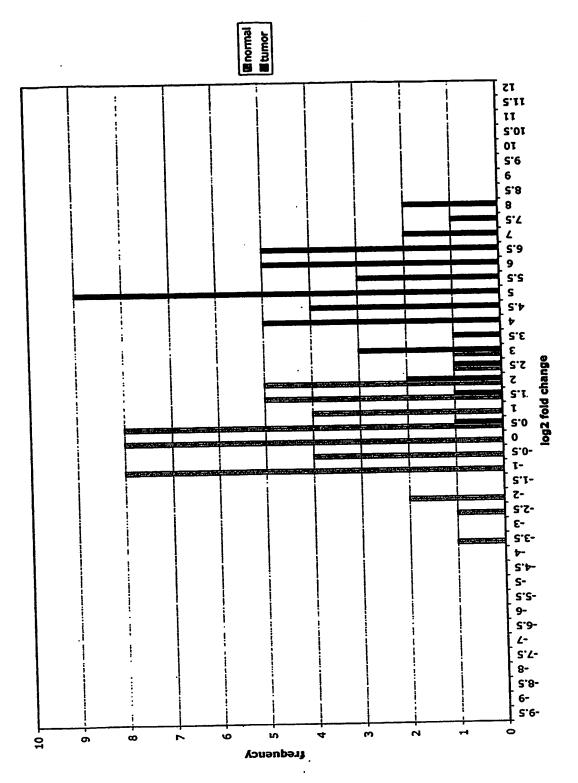
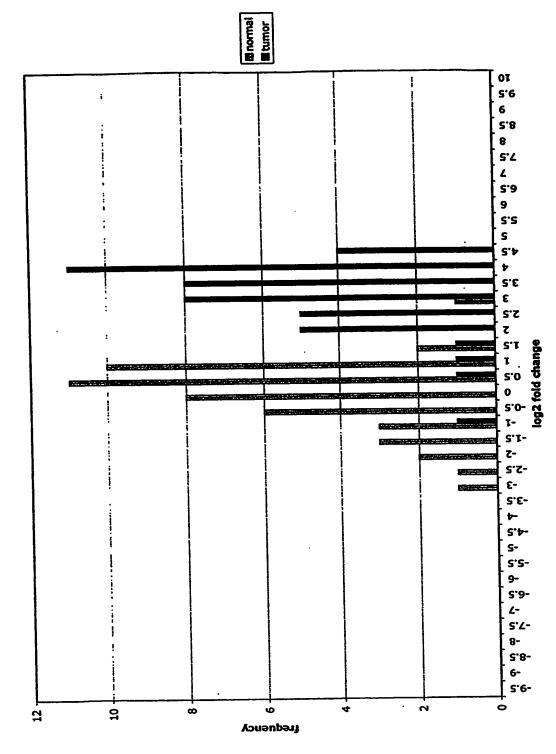


Figure 5(k)

Figure 5(1)

TIMP1-tumor: median normal log2 fold change



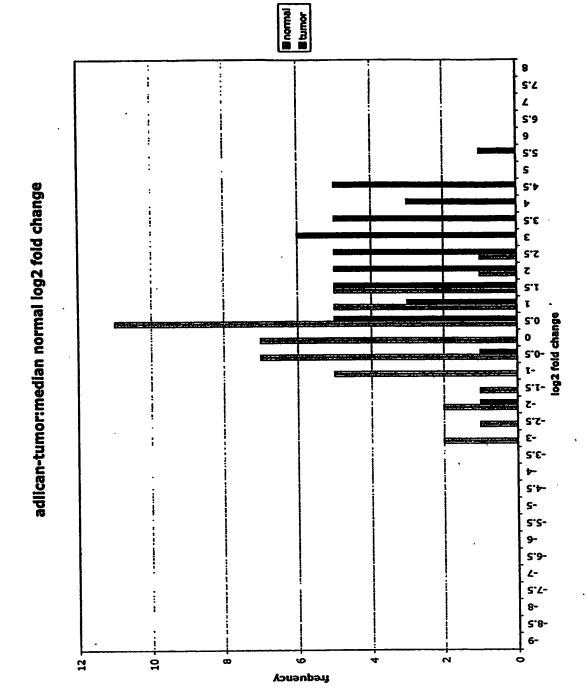


Figure 5(m)

PRS11- tumor:median normal log2 fold change

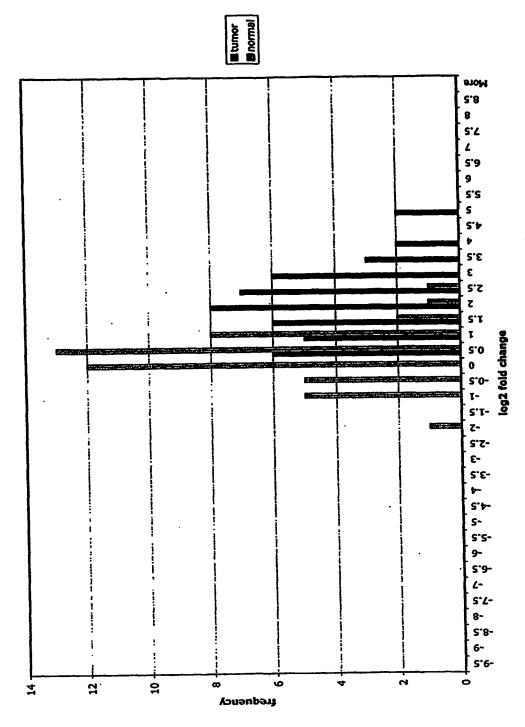
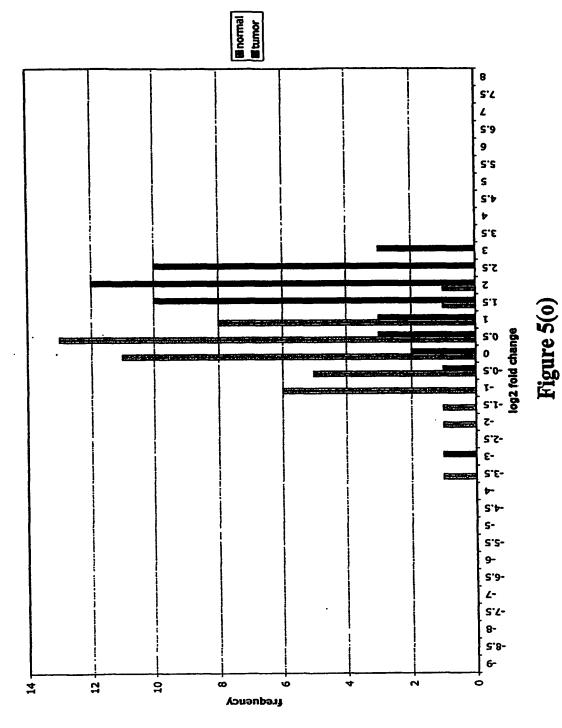
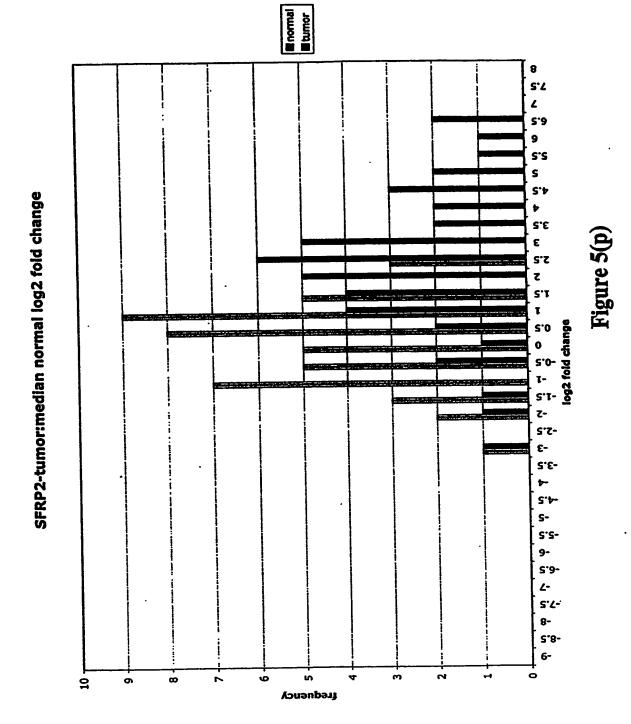


Figure 5(n)







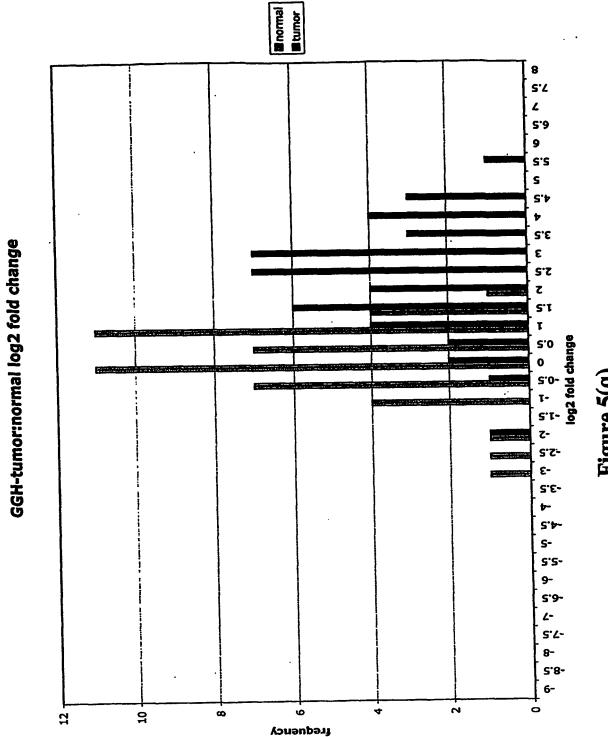
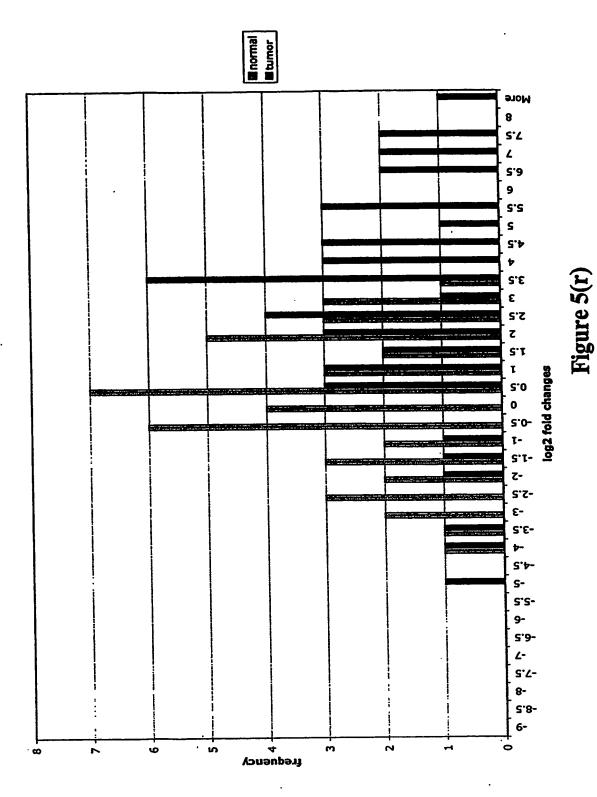


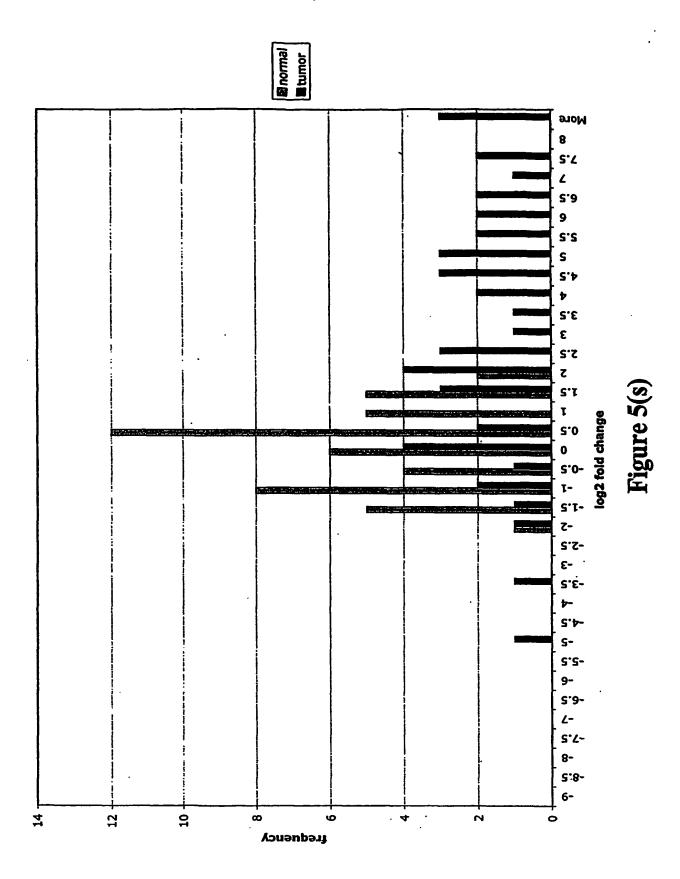
Figure 5(q)

MMP12-tumor:median normal log2 fold changes

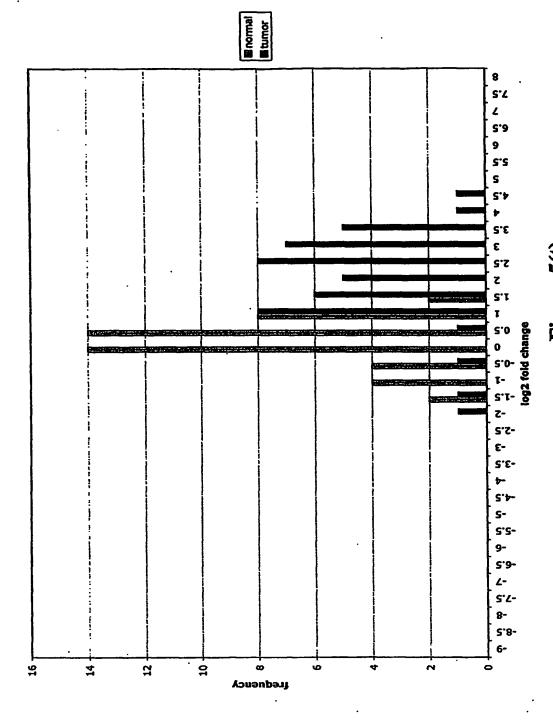


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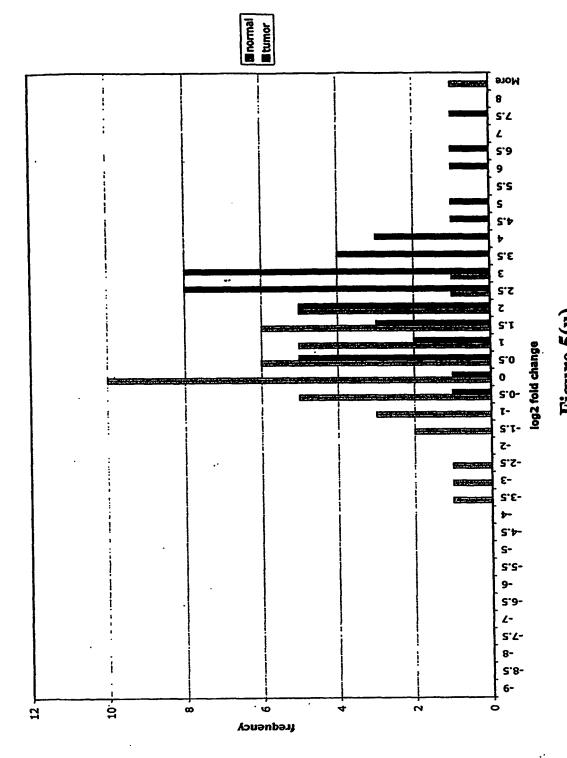
26/104



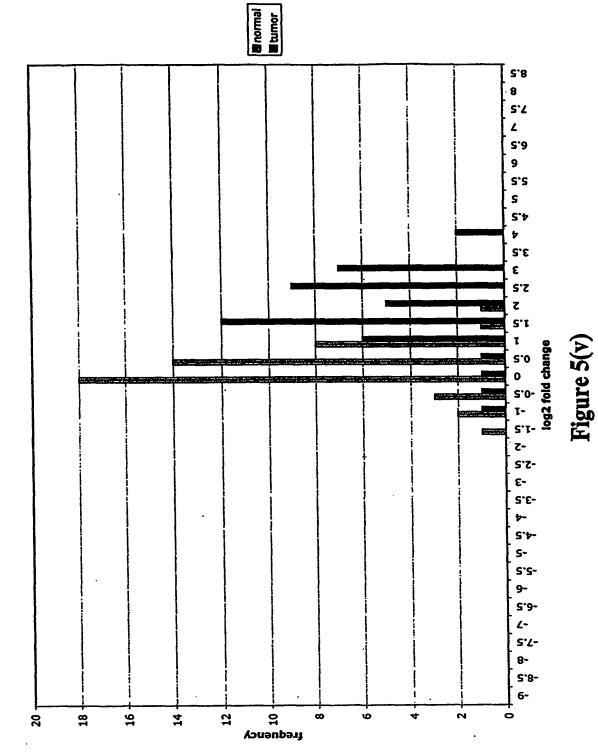
LEPRE1-tumor:median normal log2 fold changes



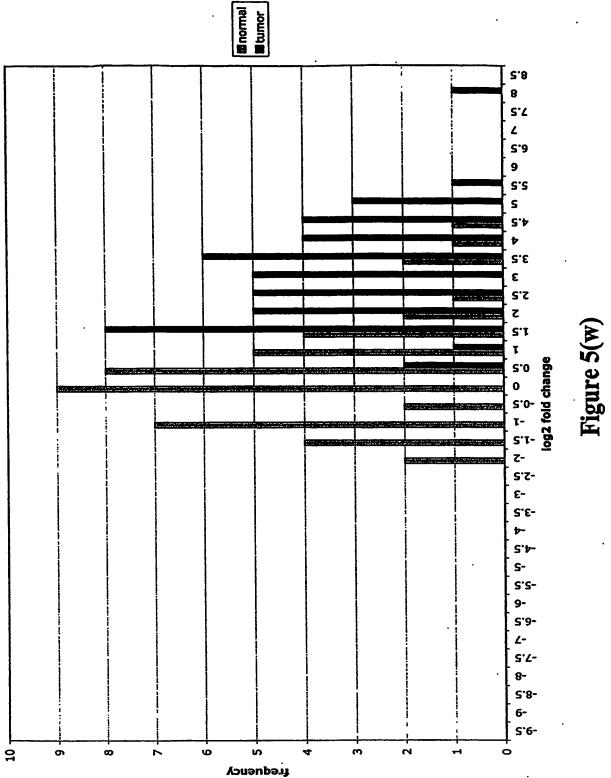
TG-tumor:median normal log2 fold change



EFEMP2-tumor:median normal log2 fold change



ormal



Number of genes expressed > 95th percentile of median normal expression in each tumor sample

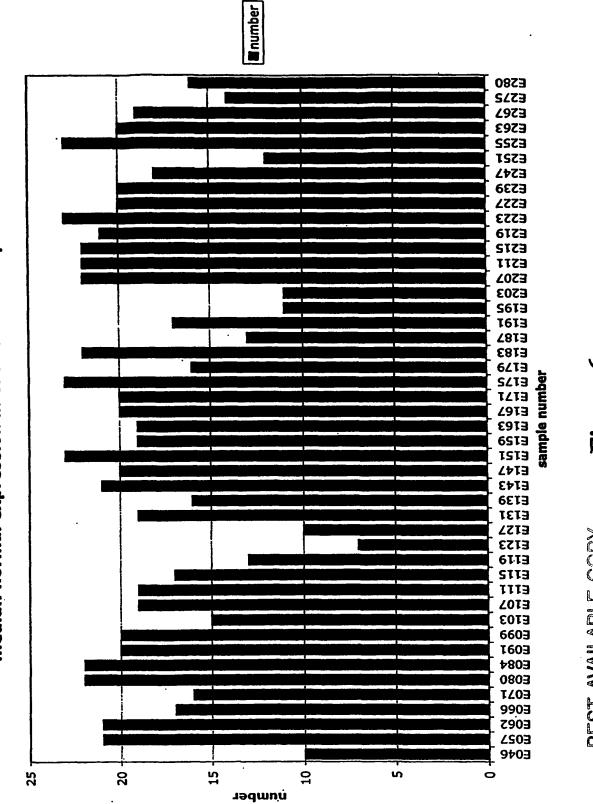
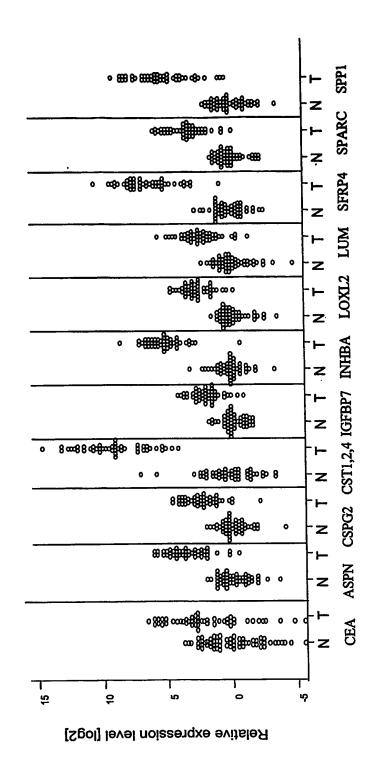
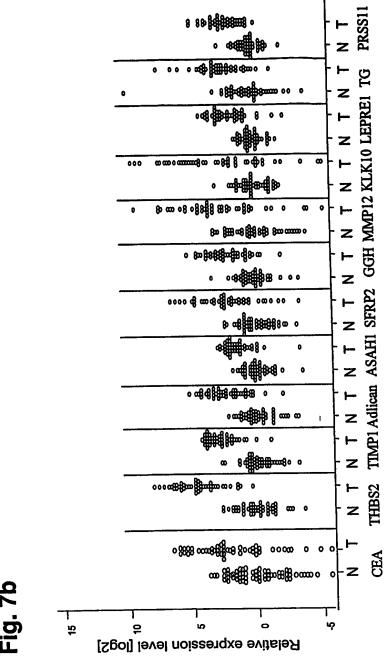


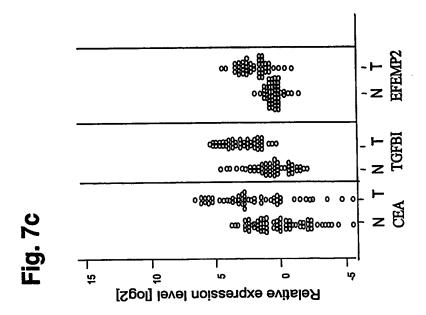
Figure 6

BEST AVAILABLE COPY

Relative expression of markers in tumor and normal samples compared to CEA Fig.7a

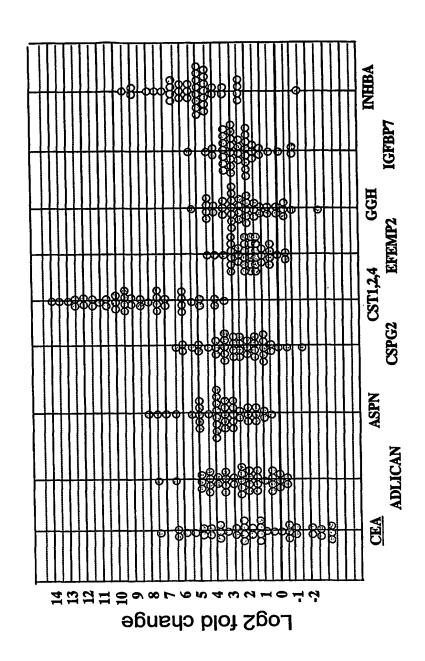






lein 8 OuanHative RT-PCR: expression in paired tumor and non-mailgnant samples of selected gastric cancer markers	nor and non-	-malignant si	amples of sel	ected gastric cancer	markers
בואי פי לתמוחתמני עי כאו כאו ביות				% tumor samples	
		median T:N	mandmum T:N fold	with expression / paired non-	<u></u>
	symbol		change	malignant sample	
		5	146	28	
adiican	ASPN	111	198	100	
asportn (irt dass 1)	CSPG2	5	89	93	
Chondroign Suitate proceediycair & Versicair)	7 7 V	498	11911	100	
Cystating Siv, 24 & 3	EFEMP2	3	17	93	
egr-containing mount-ince consequent mount in the consequence of the containing the consequence of the containing the containi	HDD	4	¥	8	
	INHBA	27	630	95	
actor hinding protein 7	IGF8P7	2	38	93	
	KLK10	7	519	82	
Isurana amine-endoned ambendacian 1 (leprecan 1)	LEPRE1	4	2	82	
himitan	MM	5	89	8	
hay oxidates like 2	רסאר	7	23	95	
diasea 12	MMP12	6	468	882	
	TIMP1	9	103	95	
miaca	ASAH1	3	15	2	
	Spp1	36	9	86	
moderniated number 2	SFRPZ	5		83	
	SFRP4	22	375	100	
£	SPARC	10		95	
	PRSS11	4		8	
	THBS2	23	452	86	
	គ	4	174	93	
Living Committee Factor Raindings	TGFBI	2	78	95	
hand domain	GR11	3	33	75	
	SERPINHI	10	51	86	
matrix motalianmeinage 12	MMP2		46	88	
omombalo movertade cubtilisin/kexin type 5	PCSKS		83	08	
serine (or cysteine) proteinase inhibitor 85	SERPINBS	5	861	2	
transforming growth factor 81	TGFB1	3	16	23	
caminomhranic actioen (CEA)	CEACAMS	3	177	89	

Relative tumor:normal fold changes in paired tumor/normal gastric samples Fig. 9a



LUM MAP12 SERPINH1 SFRP2 MAP12 PRSS11 KLK10 LEPRE1 LOXL2 CEA Fig. 9b Log2 fold change

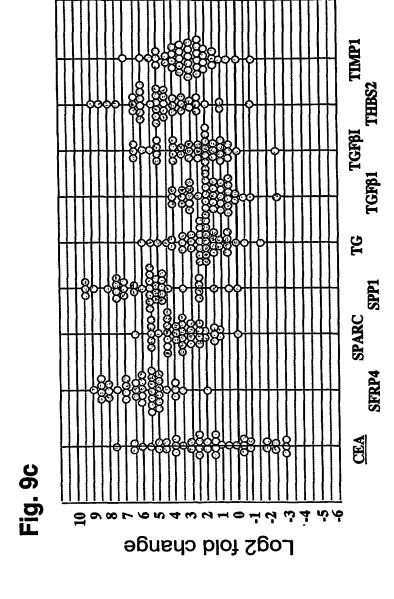
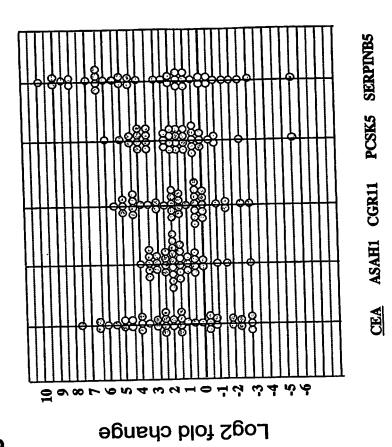


Fig. 9d



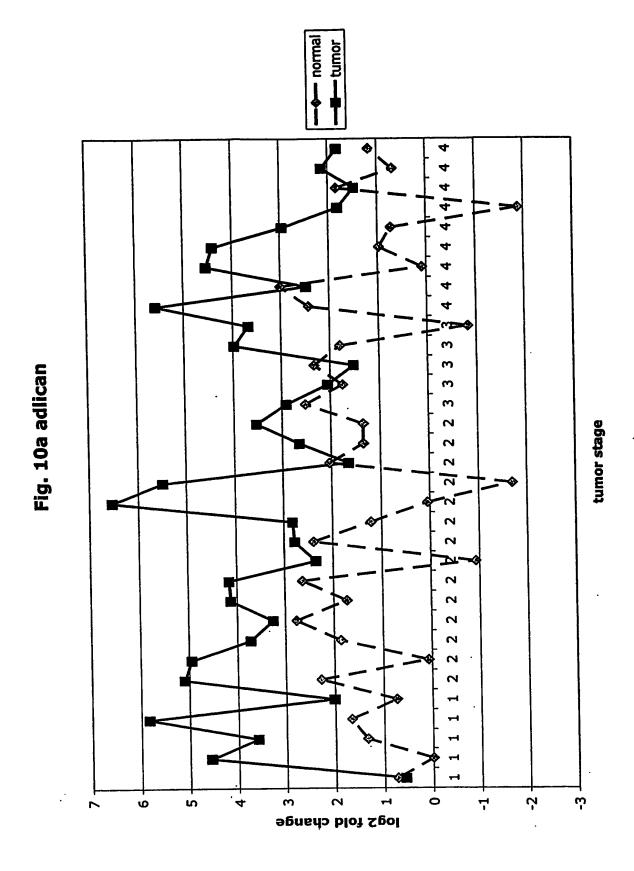
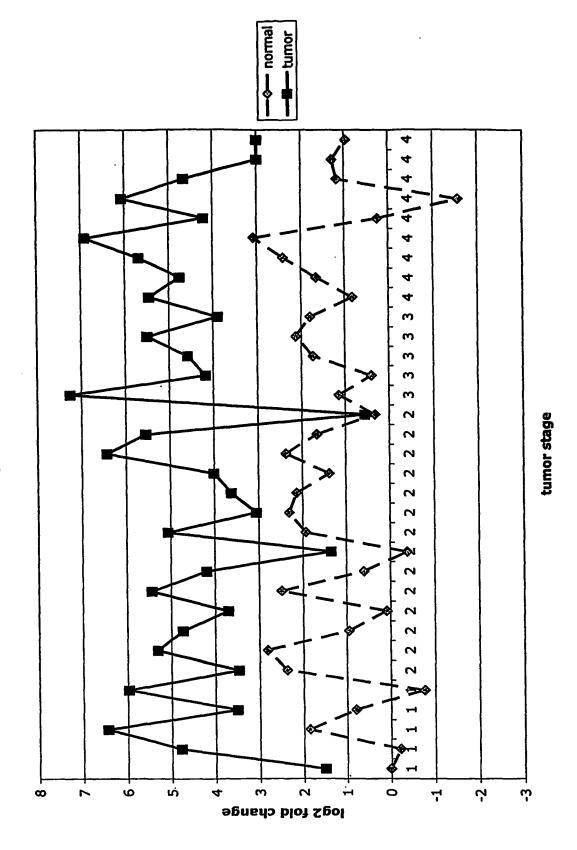
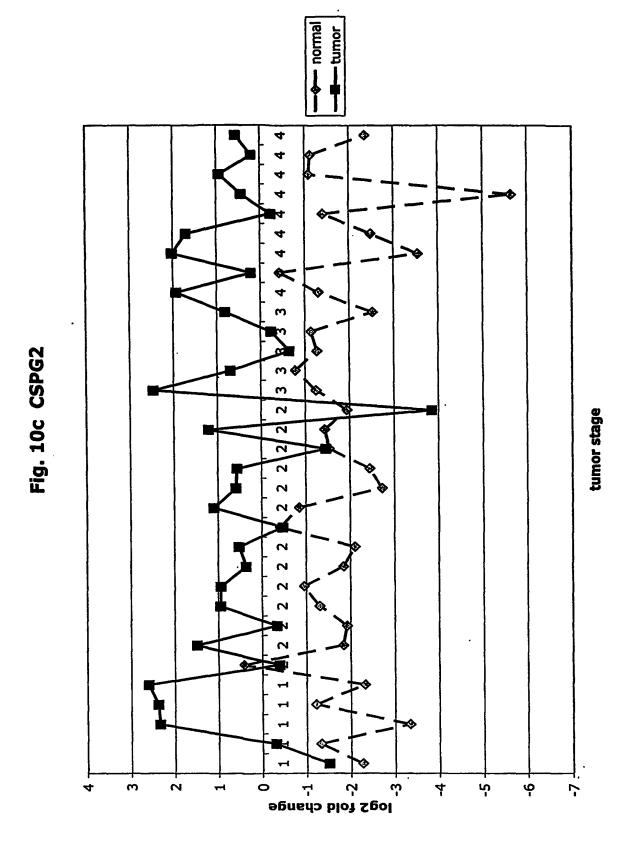


Fig. 10b ASPN





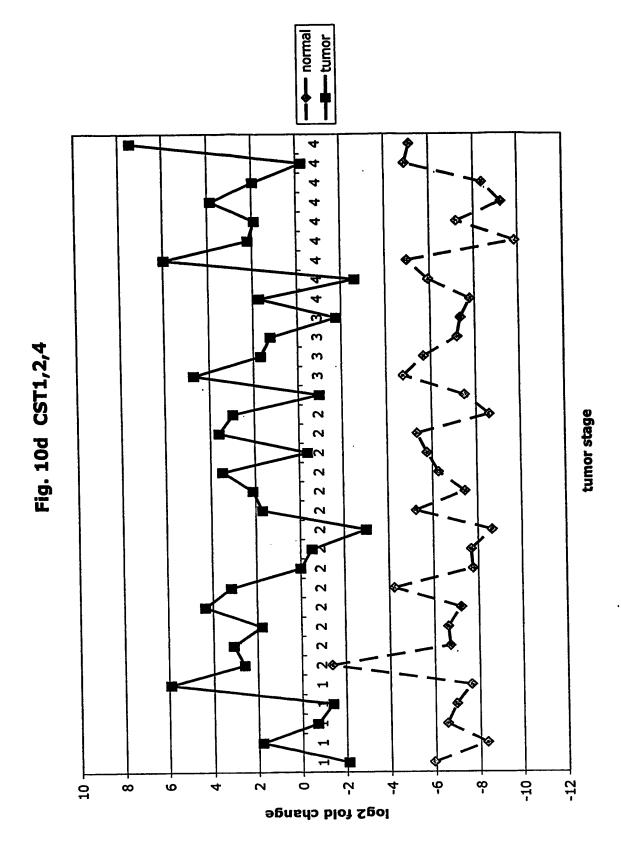
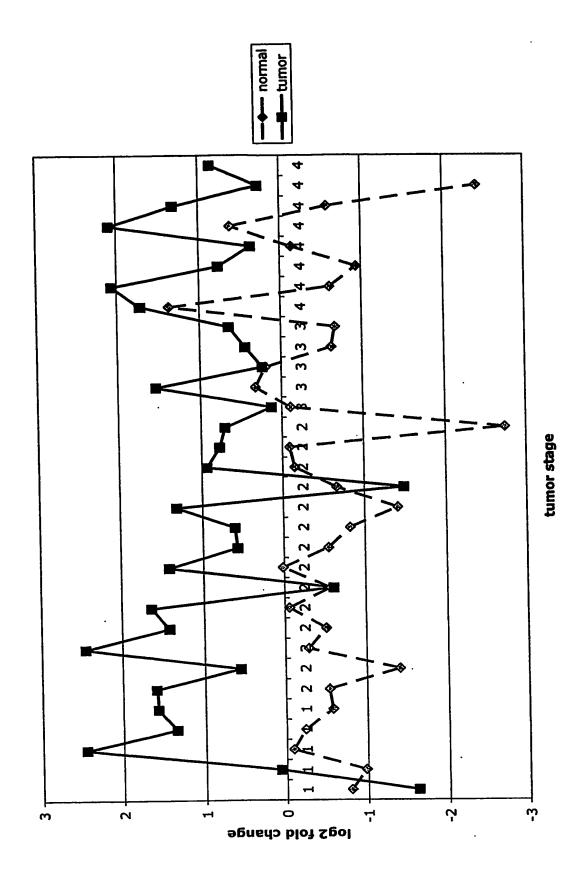


Fig. 10e EFEMP2



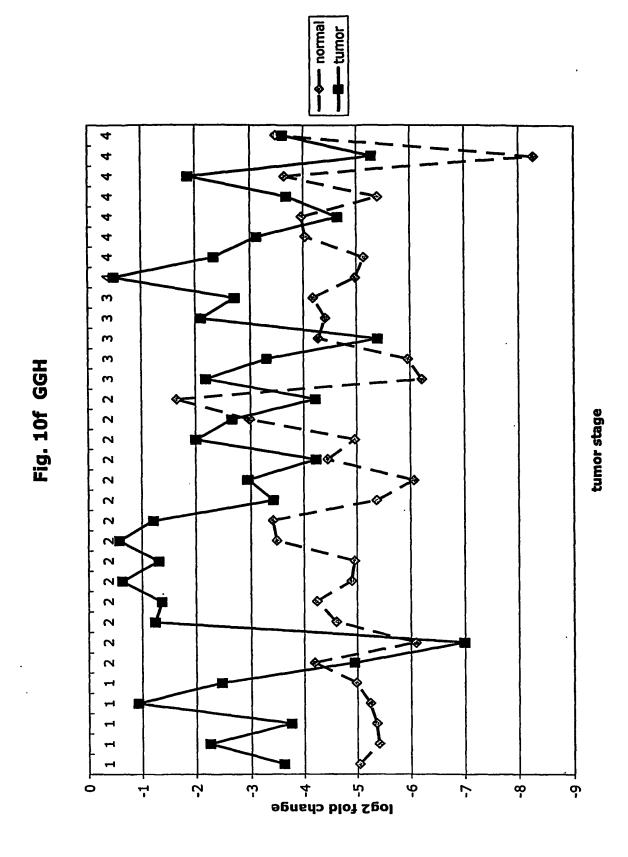


Fig. 10g INHBA

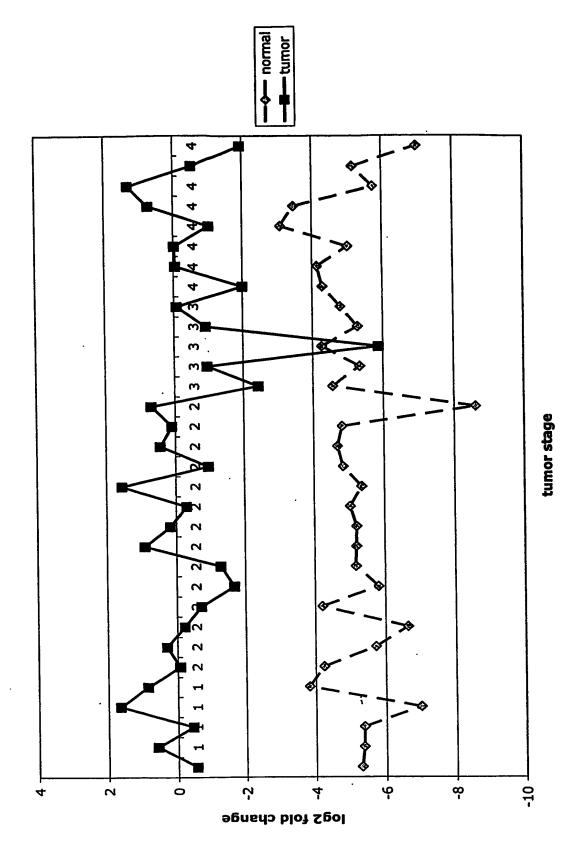
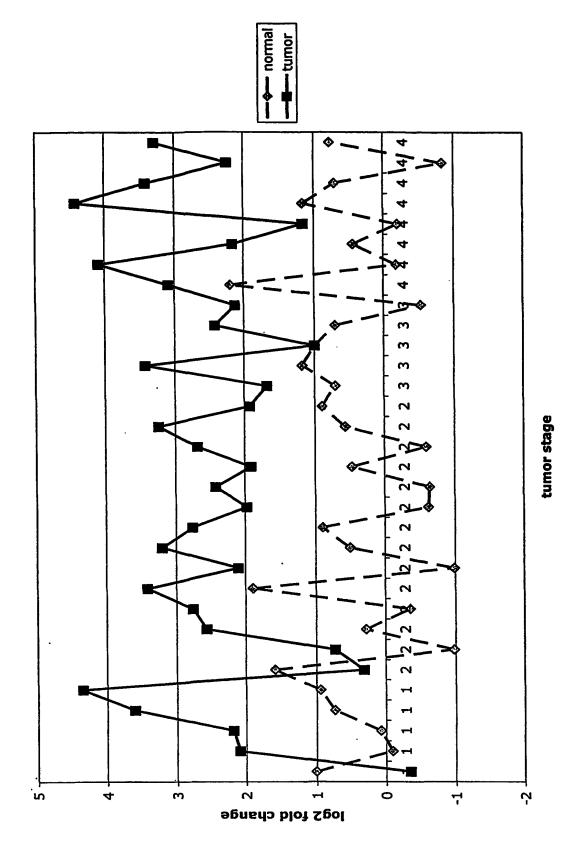
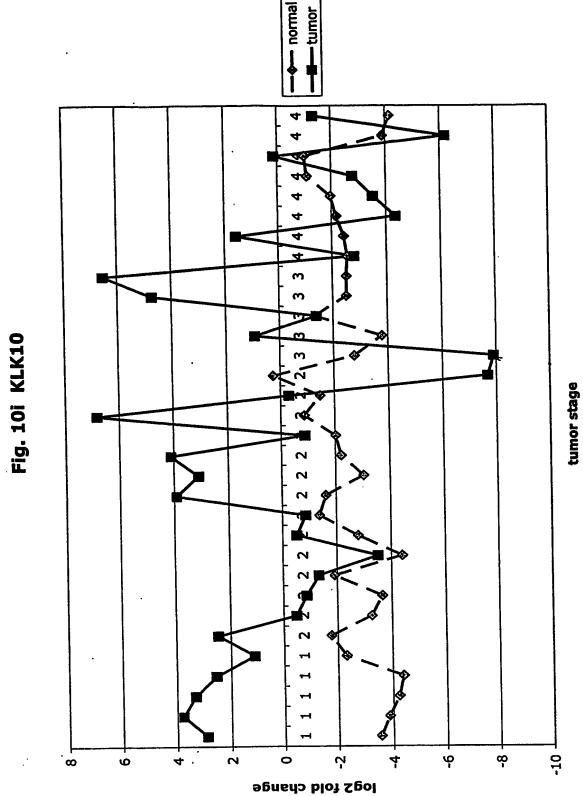


Fig. 10h IGFBP7







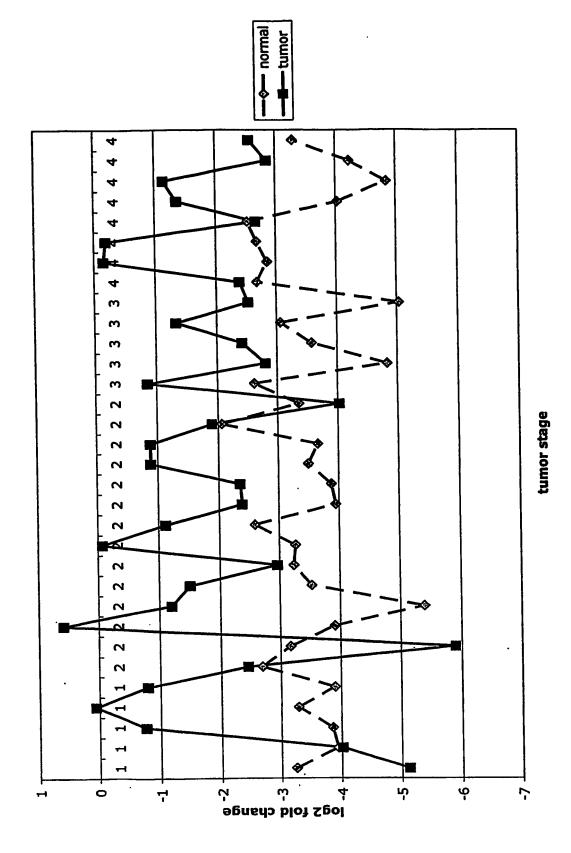


Fig. 10K LUM

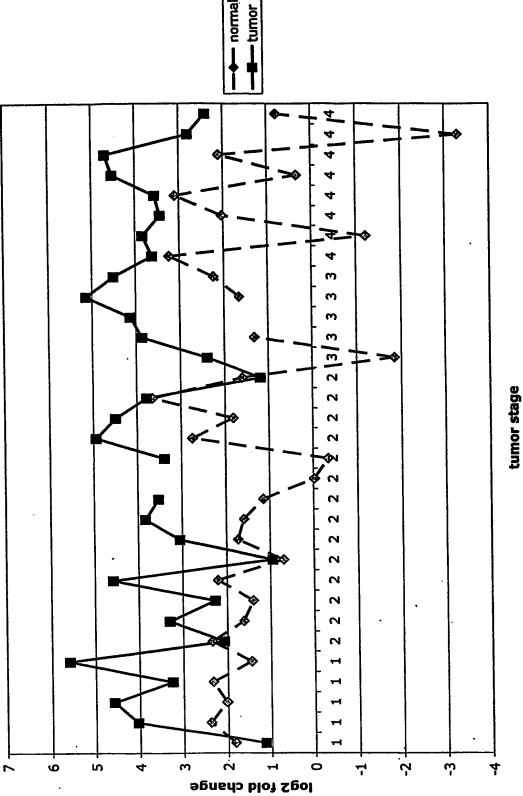
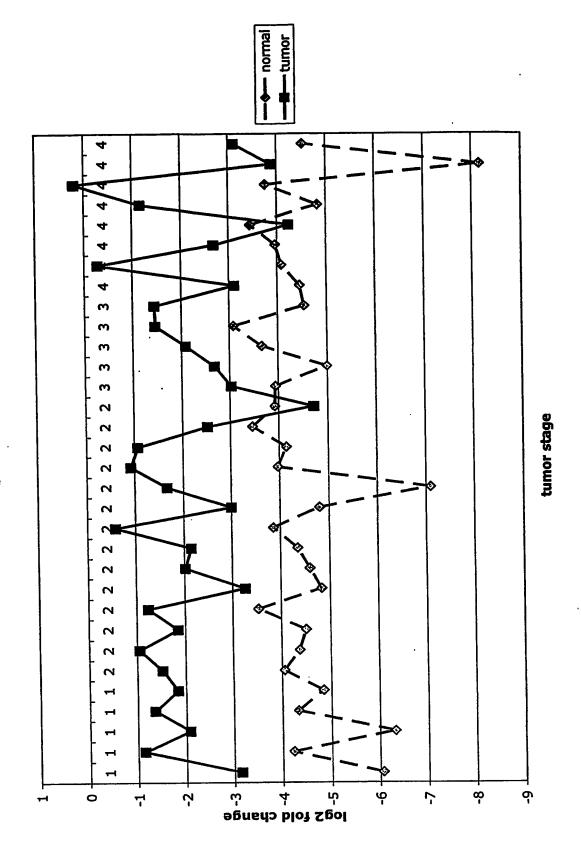


Fig. 10! LOXL2



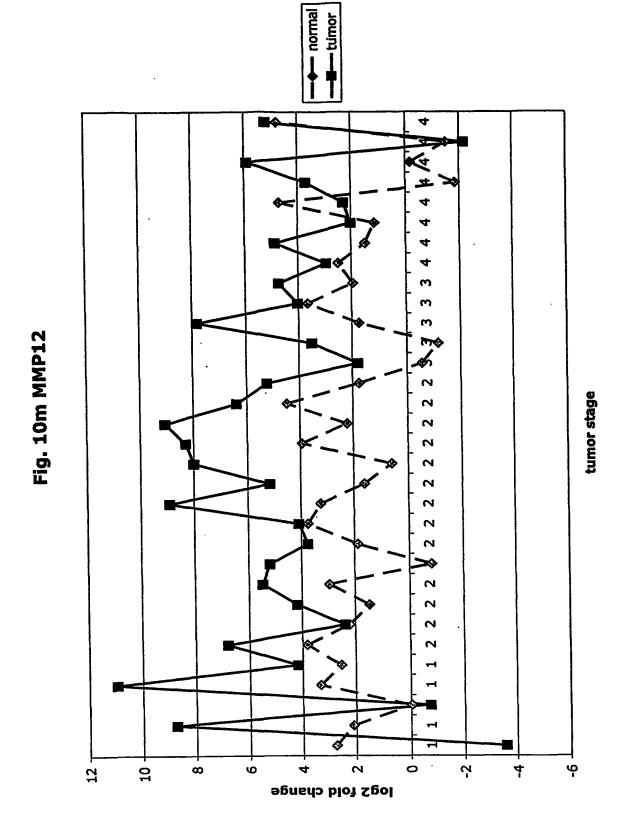


Fig.10n TIMP1

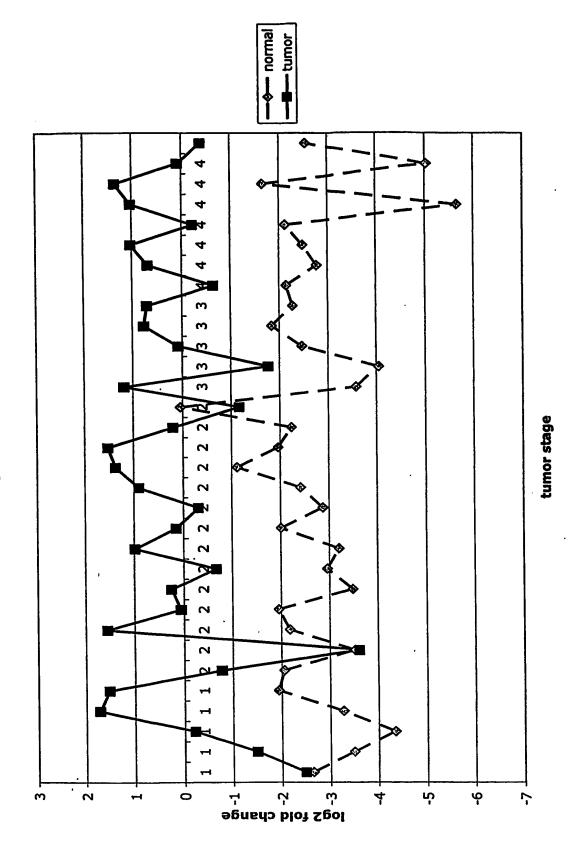


Fig. 100 ASAH1 tumor stage 4 'n log2 fold change o ≒ ∪

55/104

3 Fig. 10p SPP1 ന ~ 7 7 ? log2 fold change

tumor stage

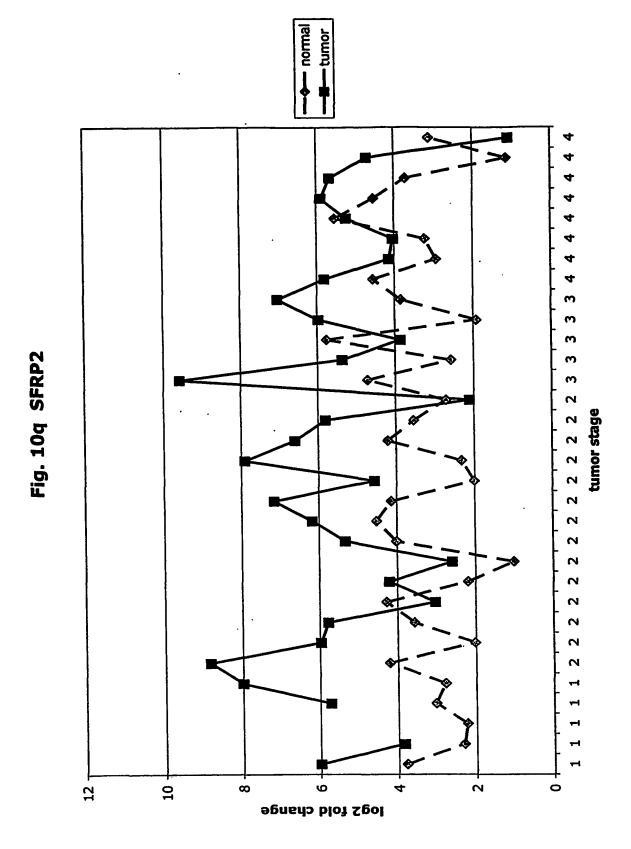
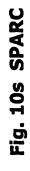


Fig. 10r SFRP4 tumor stage 9 ∞

log2 fold change



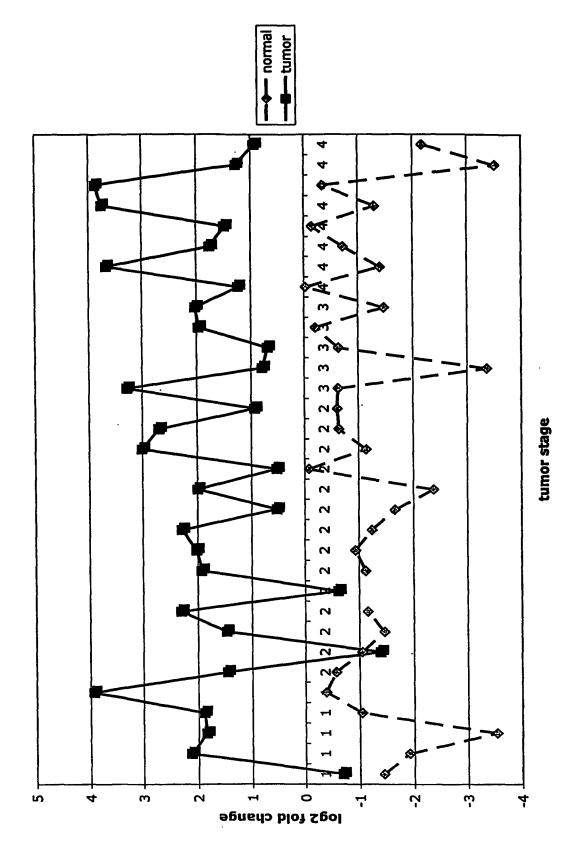


Fig. 10t PRSS11

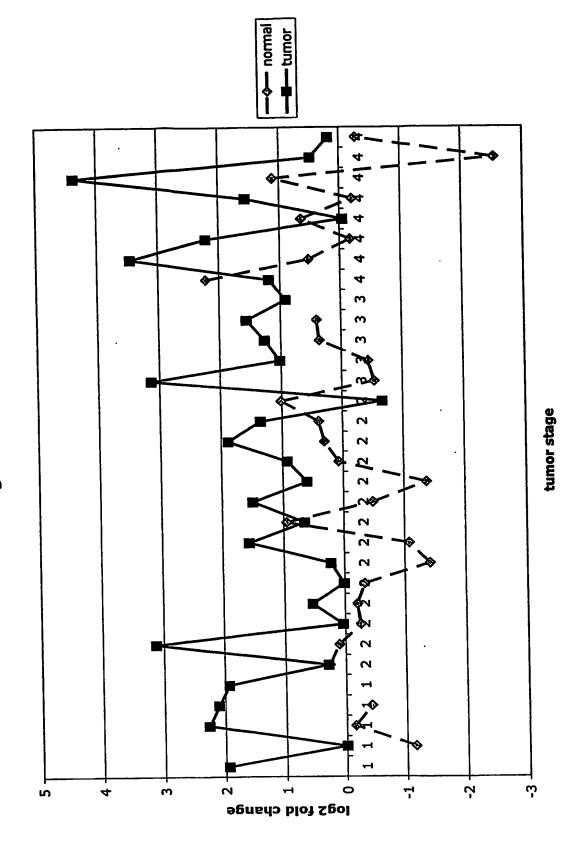


Fig. 10u THBS2 tumor stage ω ġ ņ 4 log2 fold change

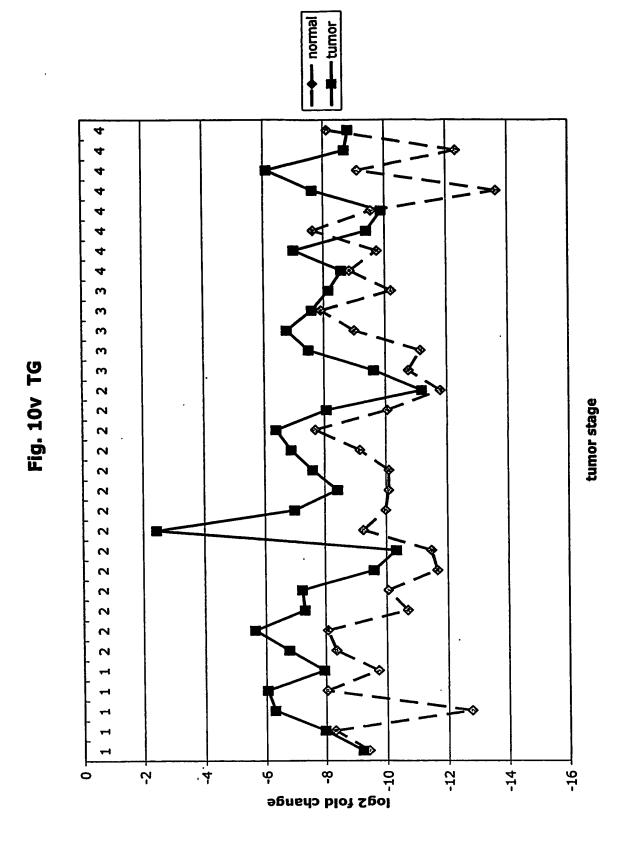
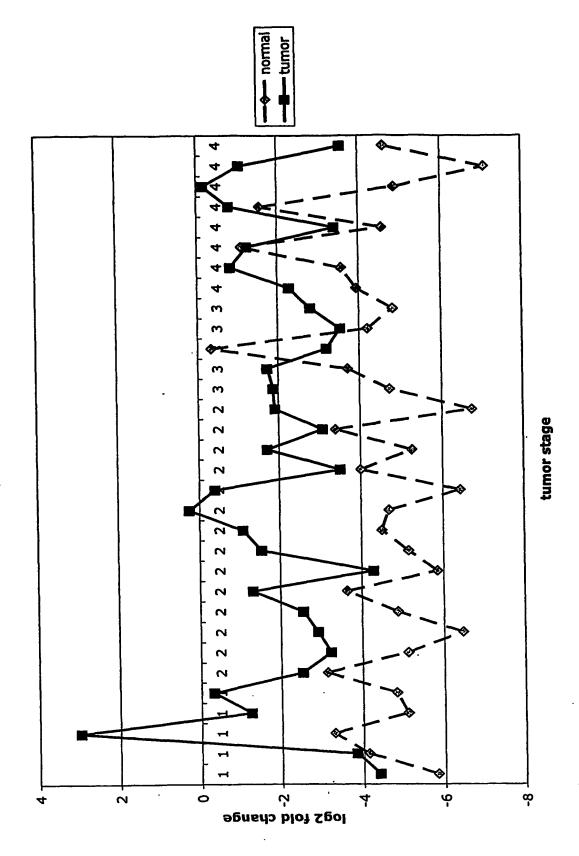


Fig. 10w TGFBI





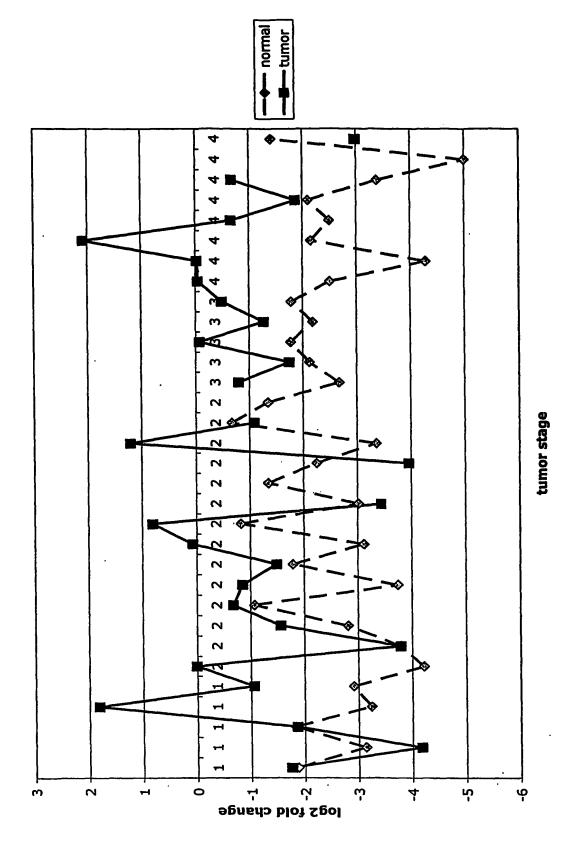
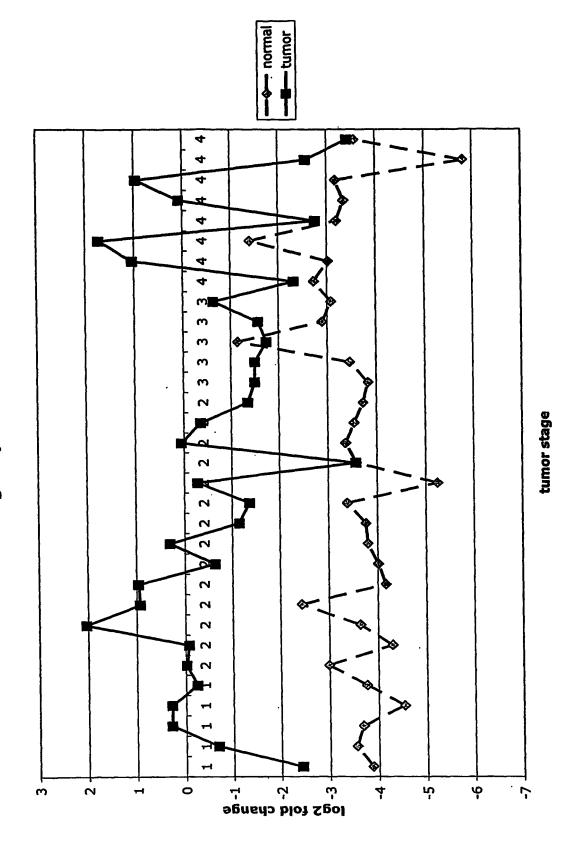
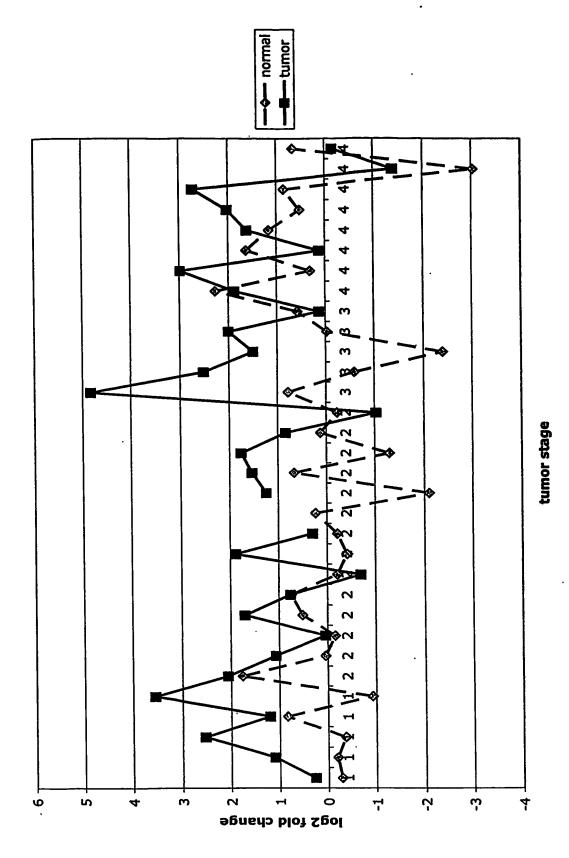
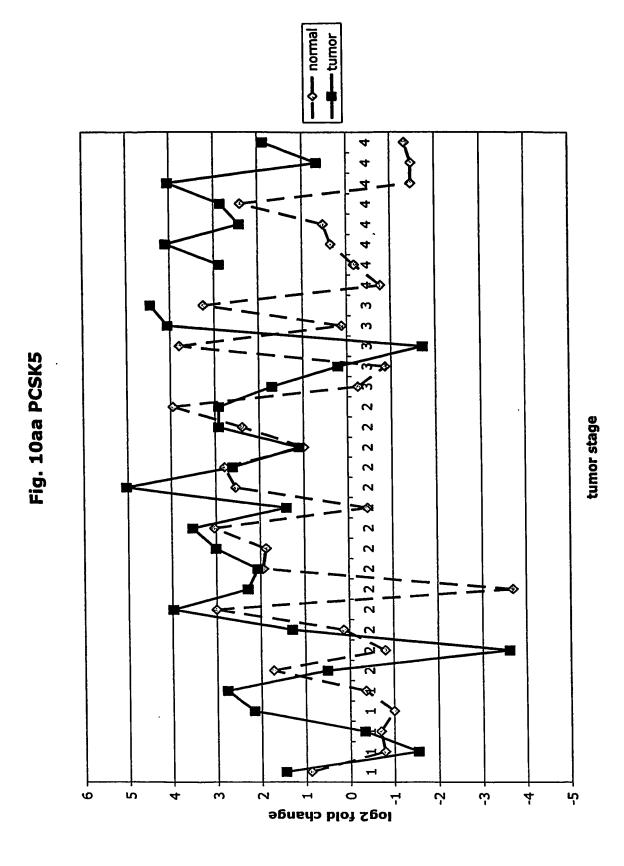


Fig. 10y SERPINH1









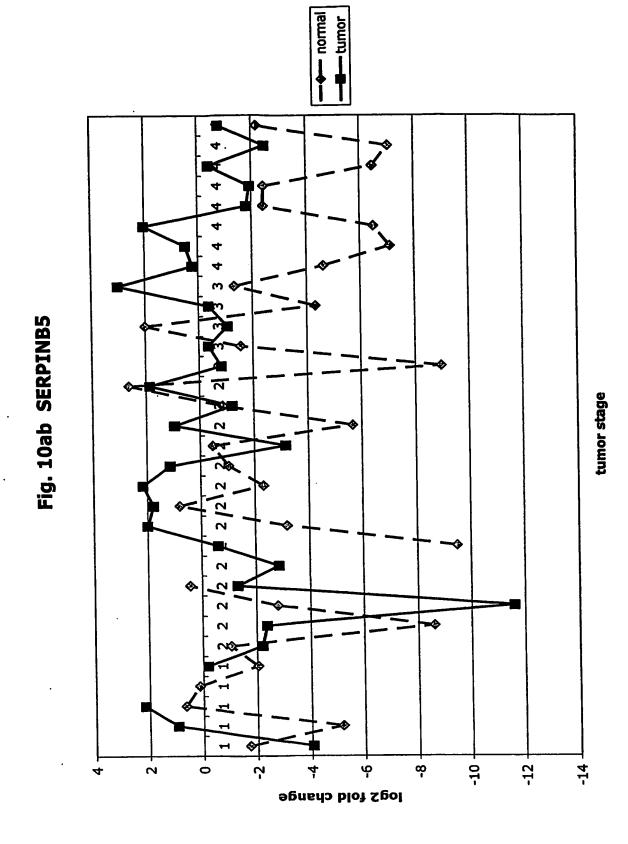


Fig. 10ac TGFb1

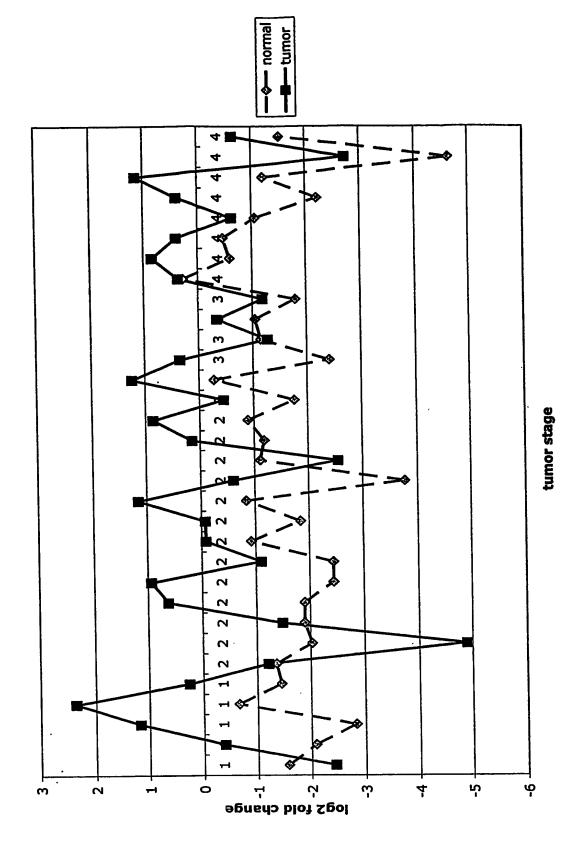


Fig. 10ad CEA

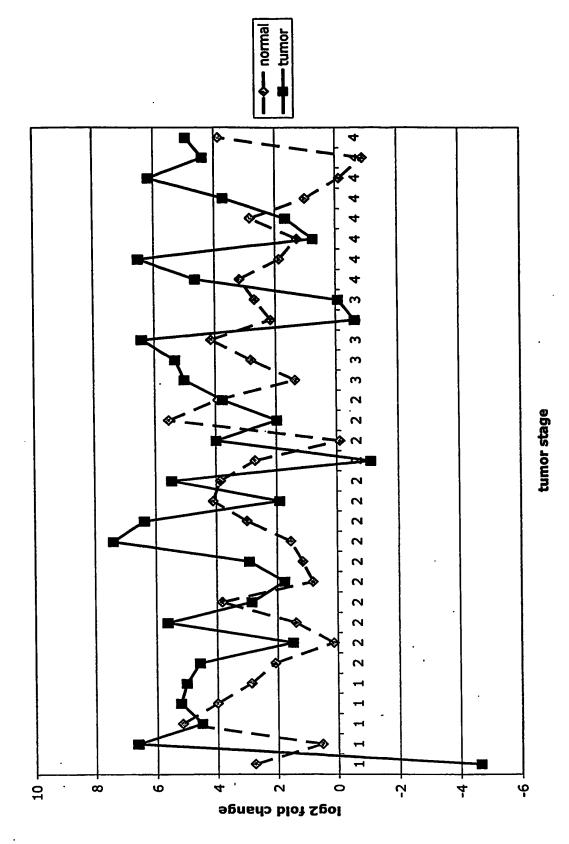
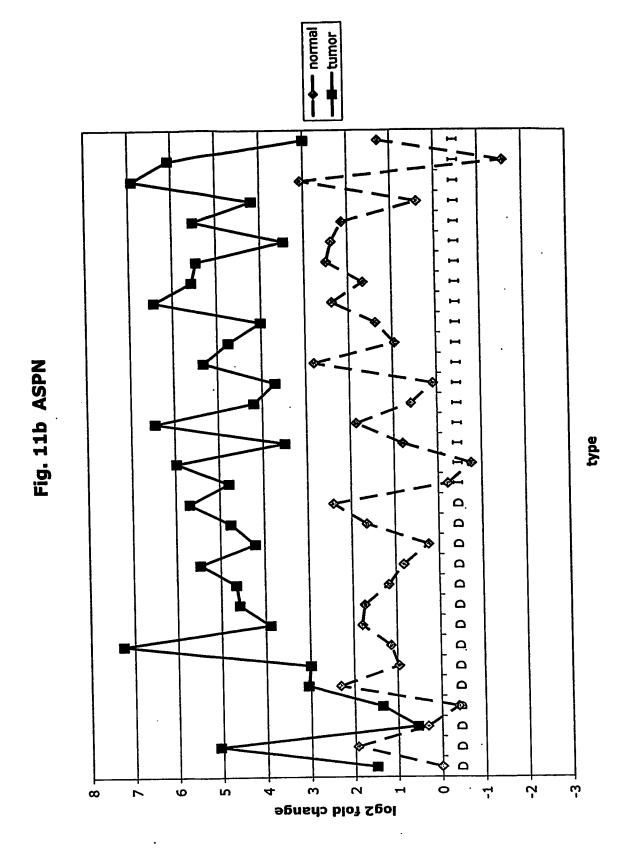
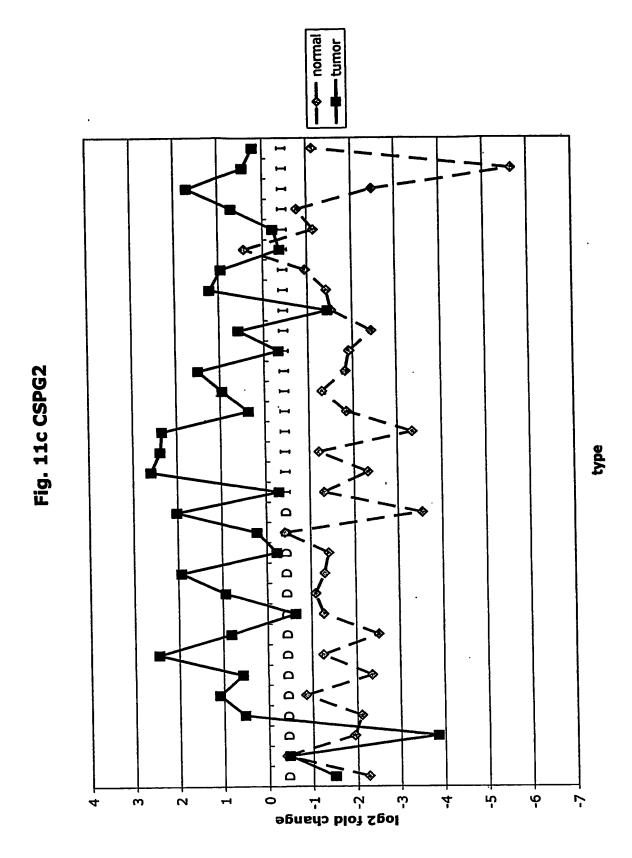
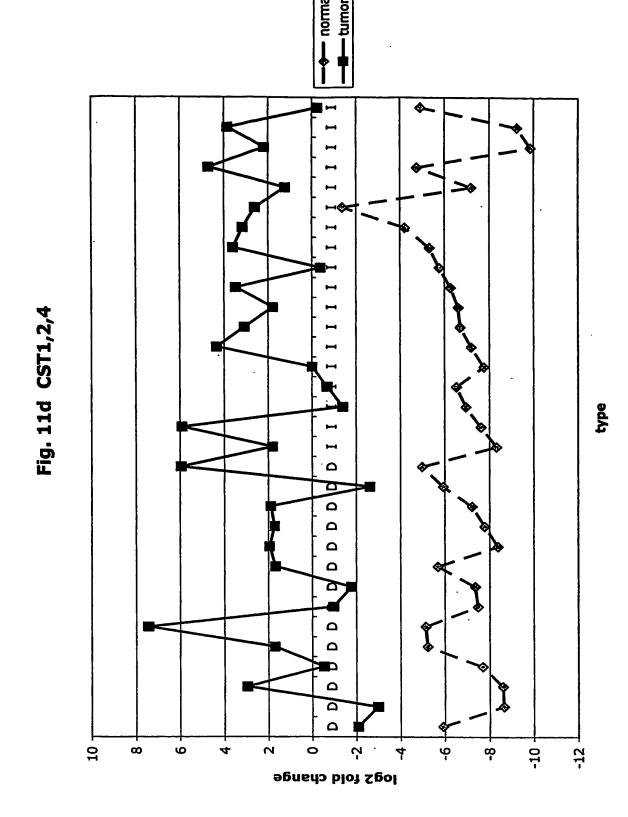
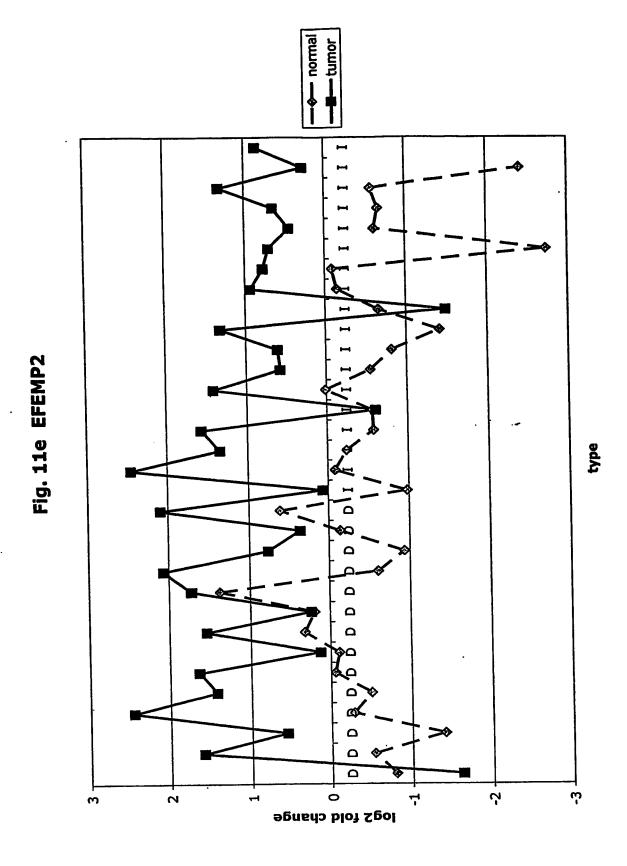


Fig. 11a Adlican type Ω ۵ Ω Ω Δ Ω Ω Ω Ω ဖ Ŋ log2 fold change









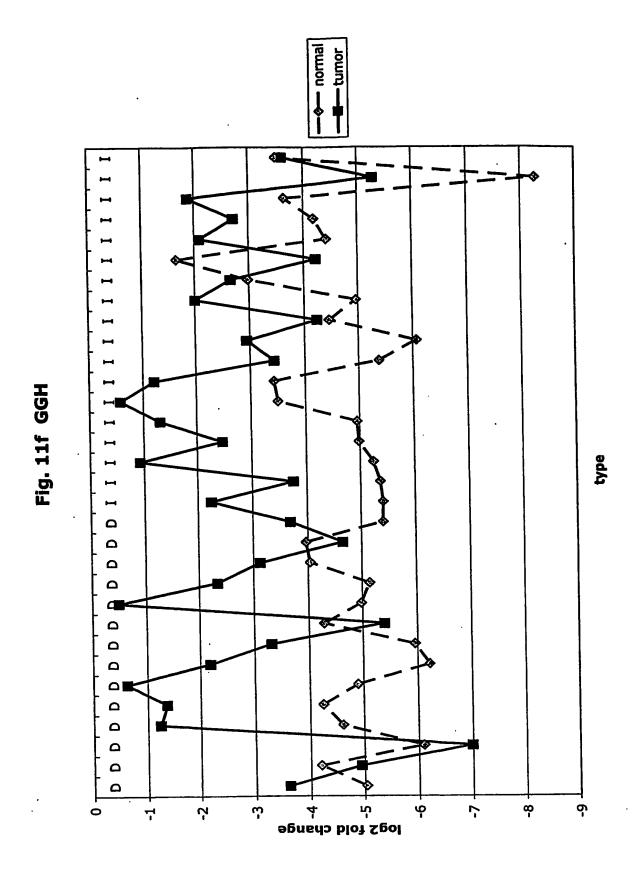
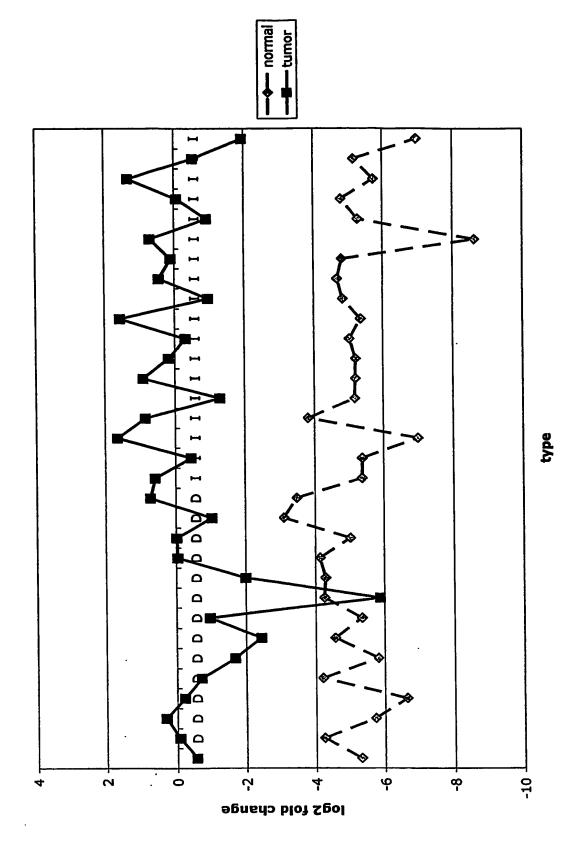
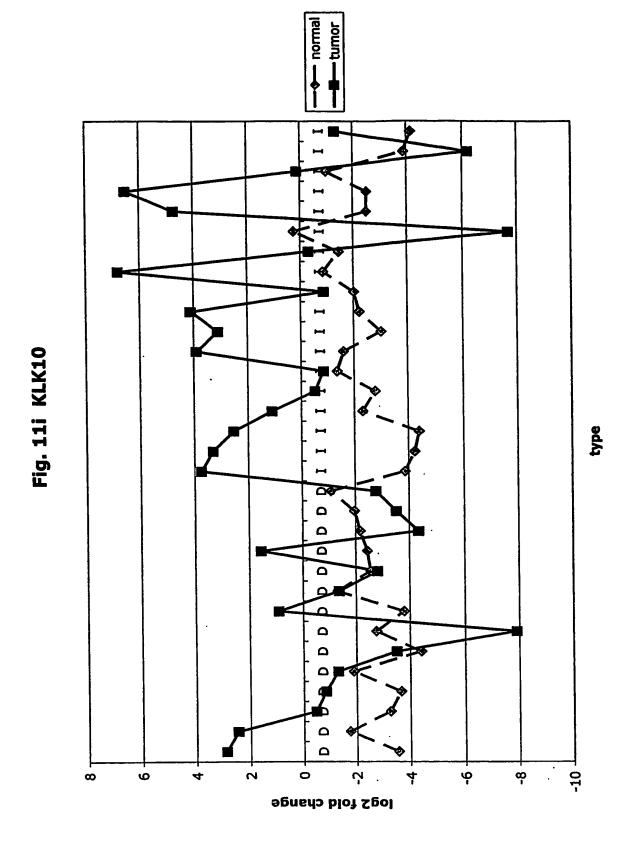


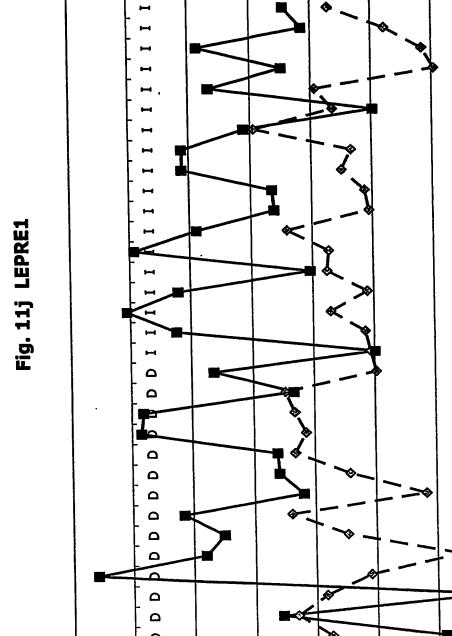
Fig. 11g INHBA



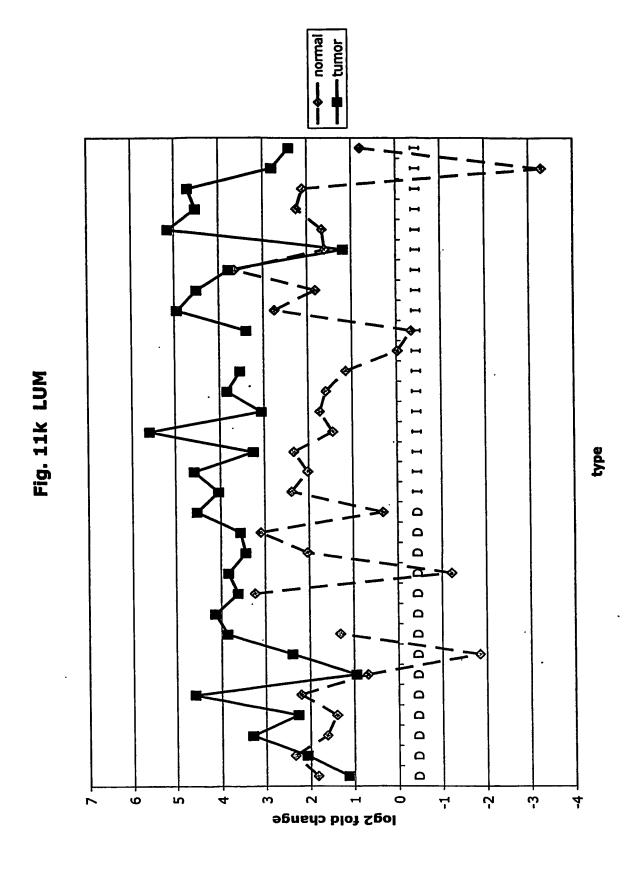
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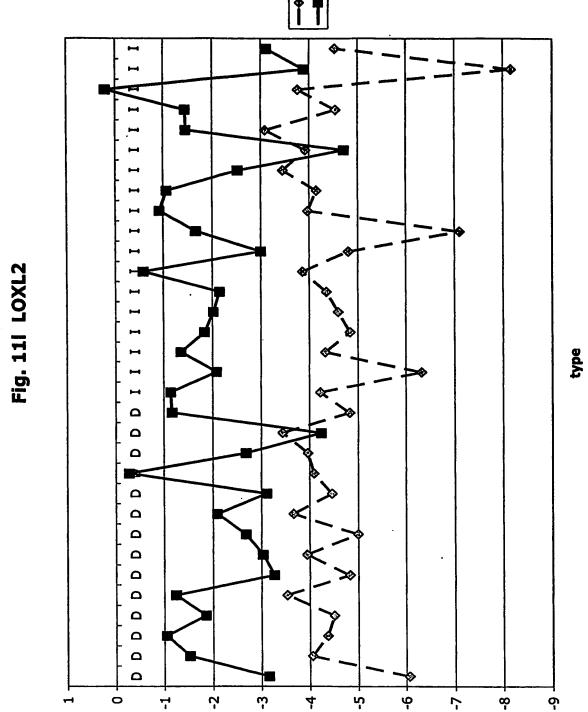
Fig. 11h IGFBP7 type Ω Ω Ω 껕 S. log2 fold change





type Ω φ log2 fold change $\frac{1}{2}$ က် 0 7





log2 fold change

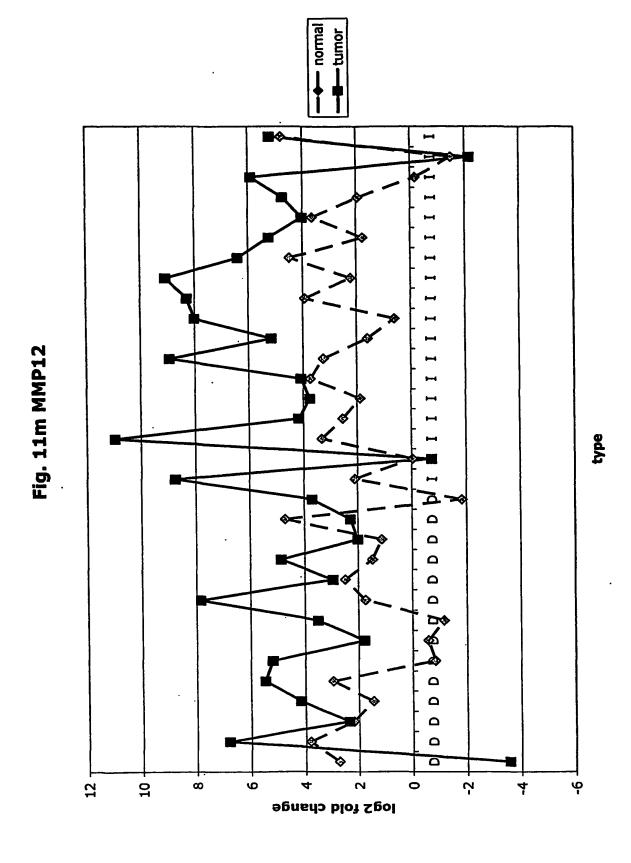


Fig. 11n TIMP1 ۵ Ω Δ Δ Δ ۵

log2 fold change

4

'n

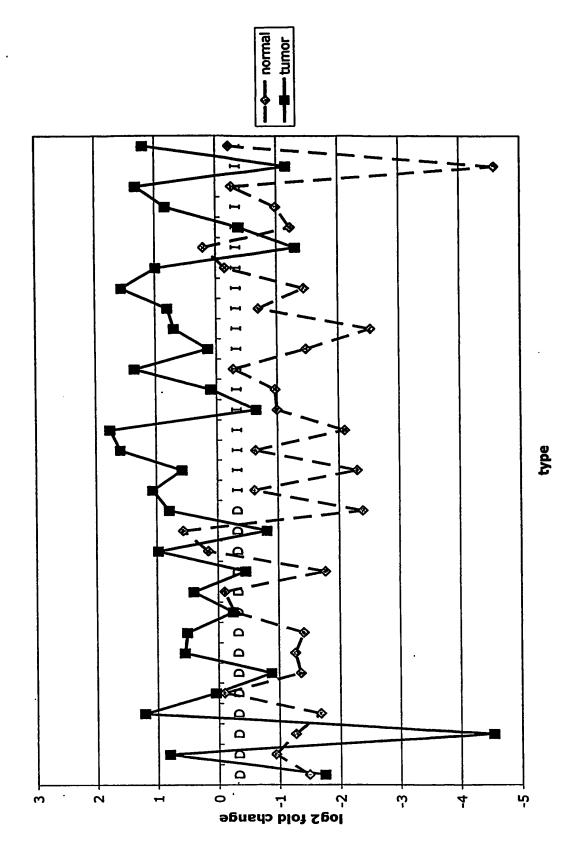
φ

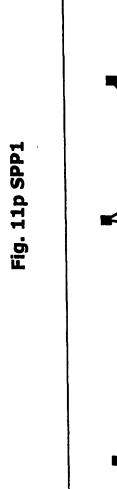
7

0

type

Fig. 110 ASAH1





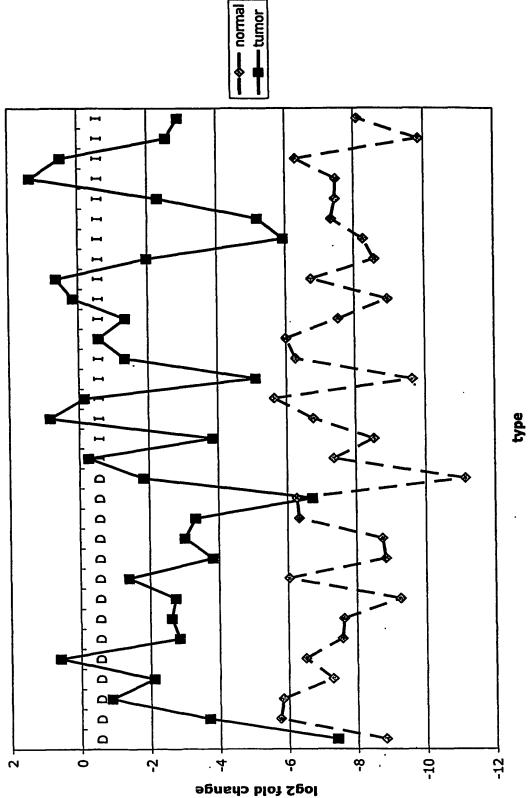
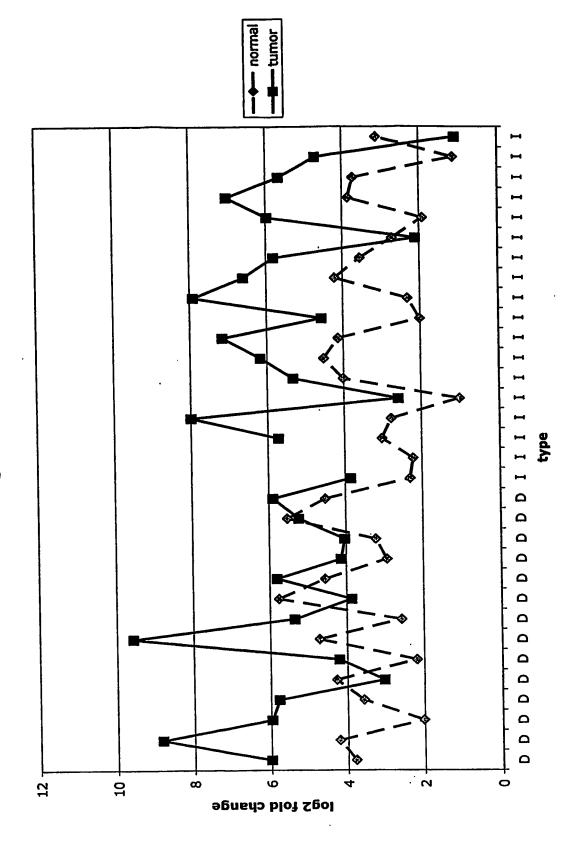
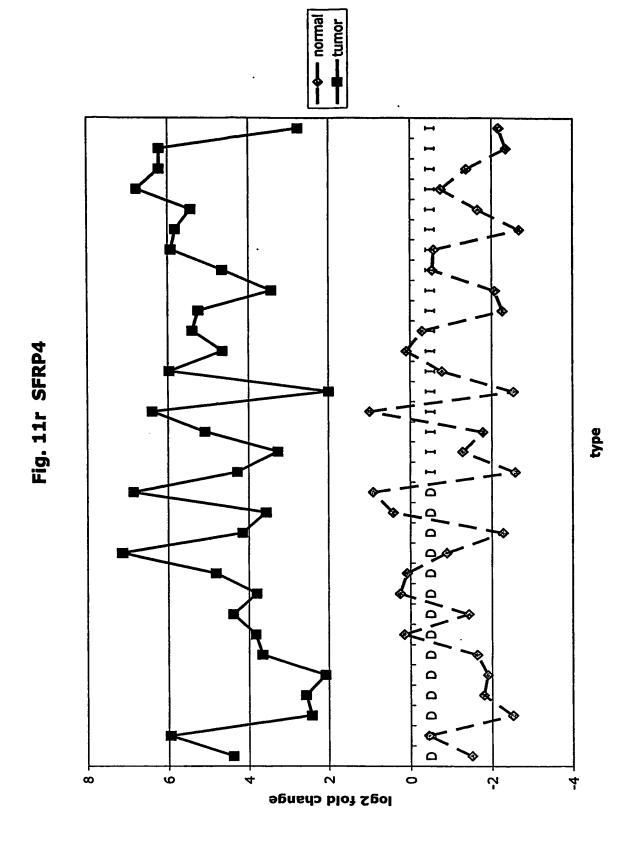


Fig. 11q SFRP2





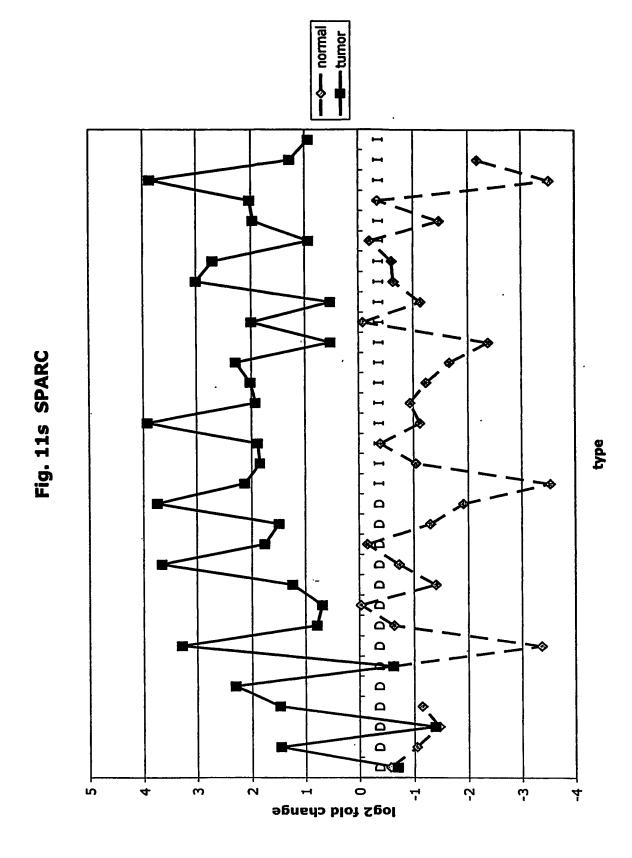
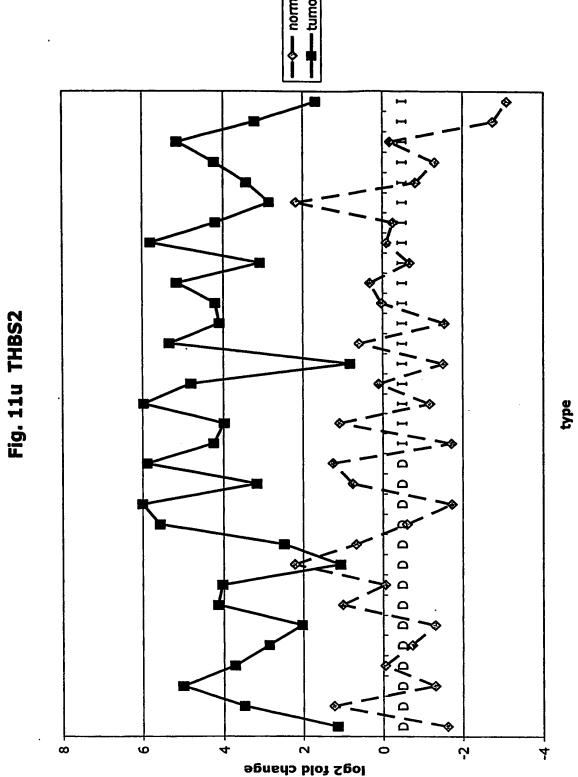
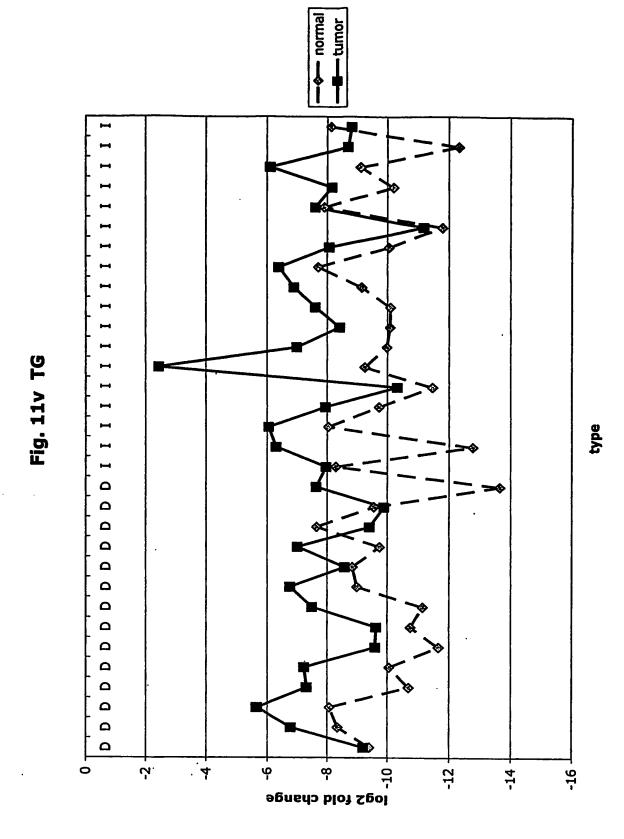
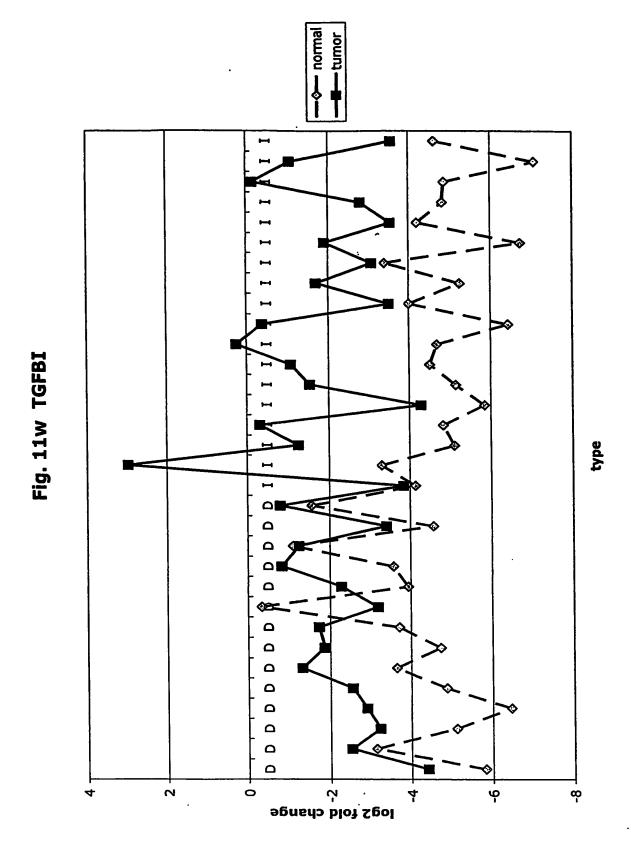


Fig. 11t PRSS11 type 8 ۵ Ŋ ന ņ ကု ᅻ log2 fold change







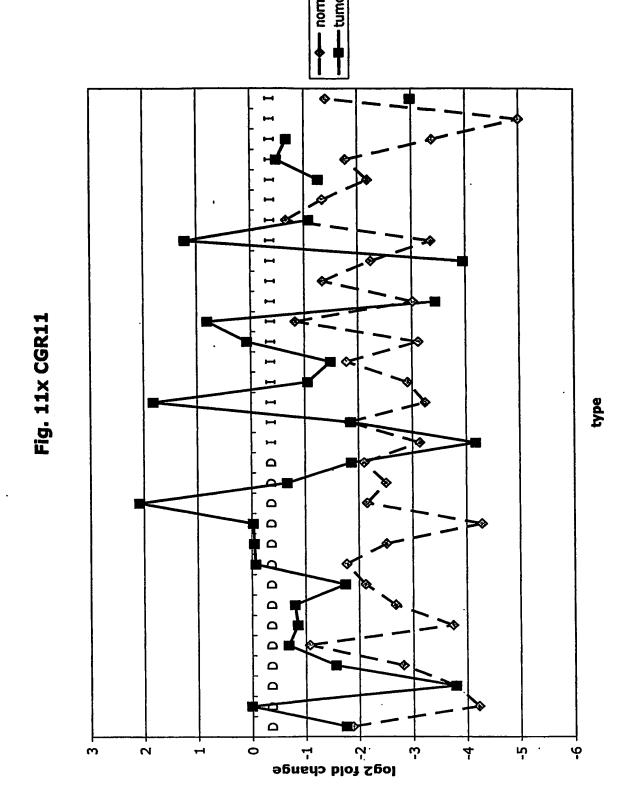


Fig. 11y SERPINH1

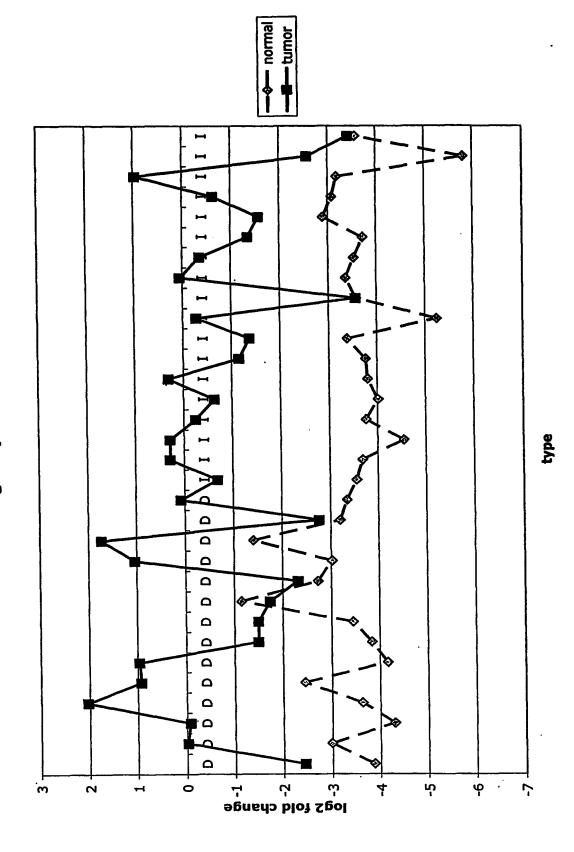
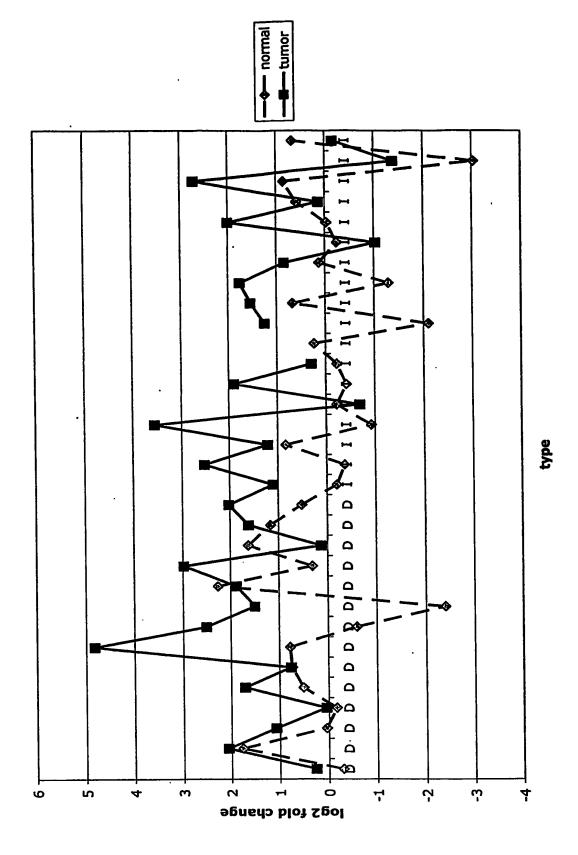


Fig. 11z MMP2



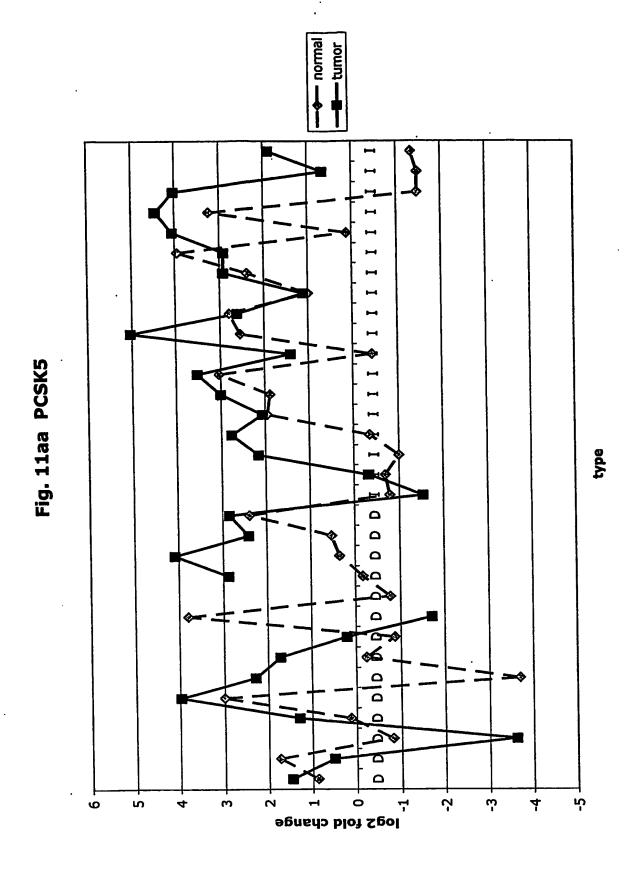
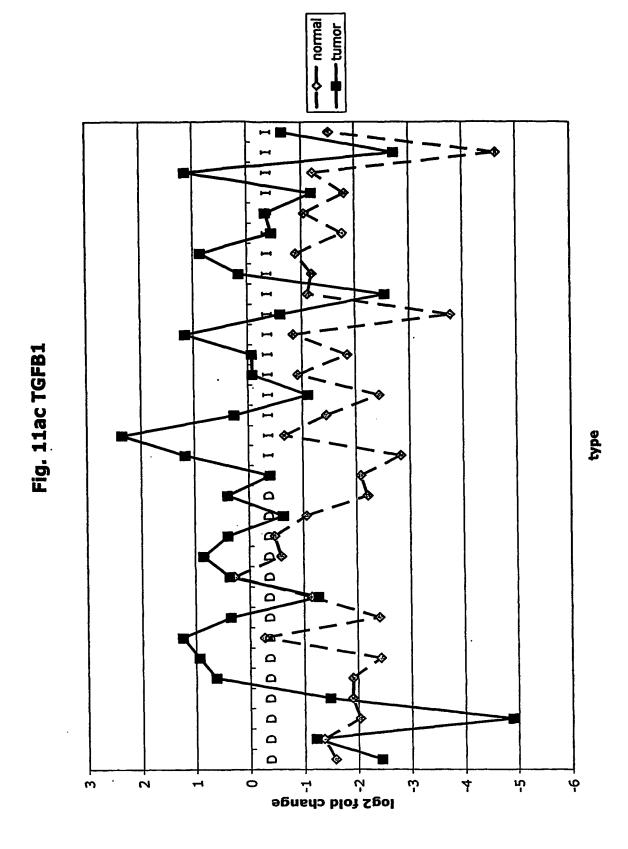
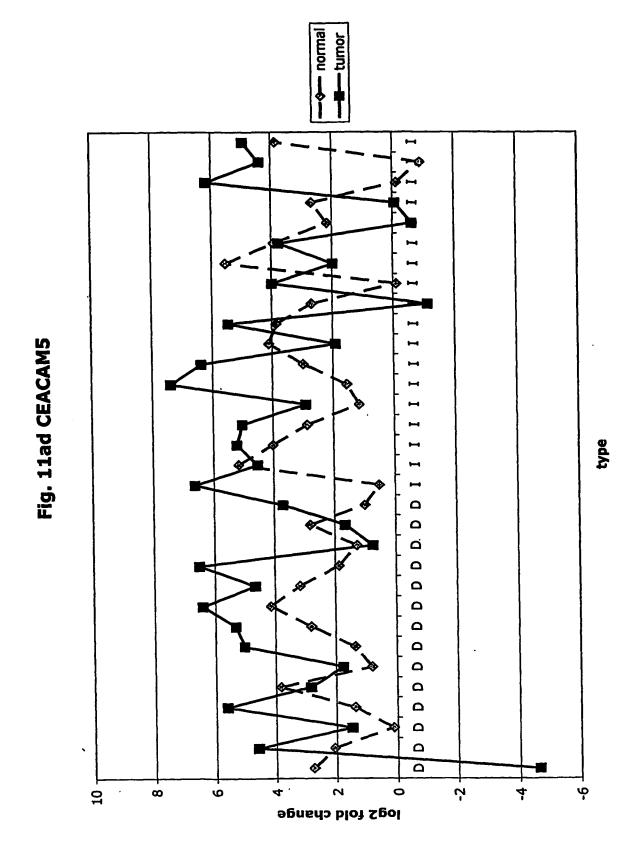
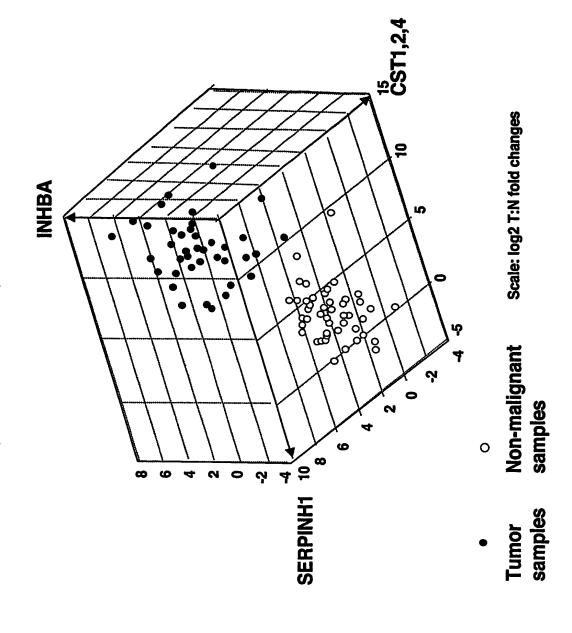


Fig. 11ab SERPINB5 type Ω ۵ Δ ۵ 2 log2 fold change





ig. 12 The separation of gastric tumor samples from non-malignant samples using three markers



Number of markers in	Total possible	Number of sensitivity	Number of tests with sensitivity	#	Proportion sensitivity	Proportion of tests with ensitivity	with
test	tests			-			
		%06=<	%66=< %56=< %06=<	%66=<	%06=<	%66=< %56=< %06=<	%66 =<
1	29	2	1	0	%6.9	3.4%	% 0
2	406	33	27	1	8.1%	6.7%	0.2%
3	3654	962	457	20		12.5%	1.4%

Fig. 13. The effect of multiple markers on the ability to accurately discriminate between tumor tissue and non-malignant tissue.

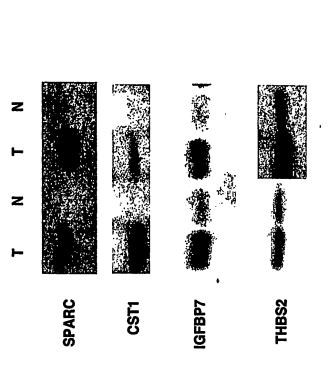
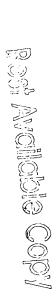


Fig. 14. Western analysis of markers in tumor and non-malignant tissue



marker tumor serum

Fig. 15. Western analysis of SPARC in gastric tumor material and serum.



supernatant

AGS

Media alone

Fig. 16. Immunodetection of cystatin SN in the supernatant of the gastric cancer cell line, AGS.

